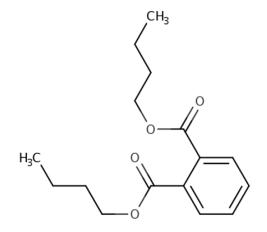


May 2025 Office of Chemical Safety and Pollution Prevention

Data Quality Evaluation and Data Extraction Information for Physical and Chemical Properties for Dibutyl Phthalate (DBP) (1,2-Benzenedicarboxylic acid, 1,2-dibutyl ester)

Systematic Review Support Document for the Draft Risk Evaluation

CASRN: 84-74-2



May 2025

This supplemental file contains information regarding the data extraction and evaluation results for data sources that were considered for the *Draft Risk Evaluation for Dibutyl Phthalate (DBP)* and that underwent systematic review. EPA used the TSCA systematic review process described in the *Draft Systematic Review Protocol Supporting TSCA Risk Evaluations for Chemical Substances* (referred to hereafter as the '2021 Draft Systematic Review Protocol'). The systematic review steps are further described in the *Draft Systematic Review Protocol for Dibutyl Phthalate (DBP)*. EPA conducted data extractions and data quality evaluations based on author-reported descriptions and results; additional analyses (*e.g.*, statistical analyses) potentially conducted by EPA are not contained in this supplemental file. Additionally, the overall quality determination (OQD) for each reference represents the data as a whole for each study and not for individual metric domains within a study.

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Template:)			
HERO ID:	3981013			
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Parameter		Data		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and	Guideline	none; not specified; not specified		
Solvent, Reactivity, Storag	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State,	and Purity	NR; NR; NR; NR Notes: NR		
Results Value		liquid		
Results Details		not specified		
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features.
Domain 2: Test Reliabil	lity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review; specific source not reported.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quali	tv Determi	nation	High	

* Related References: primary reference not specified but include CRC (2009), HSDB (no date), Merck (2006), SAX (2012)

Study Citation: OECD Harmonized		. Canadian environmental protection act	priority substances list	assessment report: Dibutyl phthalate.
OECD Harmonized Physical Form or State Template:				
HERO ID:	1333071			
			EXTRACTION	
Parameter		Data	EATKACTION	
		Data		
CASRN and Test Materia	1	84-74-2; dibutyl phthalate		
Confidentiality, Type, and		no; not specified; Not Reported		
Solvent, Reactivity, Stora		NR; NR; NR; NR		
Radiolabel, Source, State,		None; NR; liquid; NR		
Results Value	•	oily liquid		
Results Details		Not Reported		
			EVALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features of other physical/chemical properties or behaviors.
Domain 2: Test Reliab	ility			
2 oniani 2. Tost Reliad	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
		(Method Objectivity)		towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qual	ity Determi	nation	Medium	

* Related References: Montgomery, J.H. and L.M. Welkom, Groundwater Chemicals Desk Reference, Lewis Publishers Inc., Chelsea, MI (1990).

Parameter Data CASRN and Test Material 84-74-2; dibutyl phthalate Confidentiality, Type, and Guideline none; not specified; not specified Solvent, Reactivity, Storage, and Stability NR; NR; NR; NR Radiolabel, Source, State, and Purity NR; NR; NR; liquid; NR Results Value Oily liquid Results Details Not Reported Domain Metric Domain 1: Substance Metric 1: Metric 2: Appropriateness Domain 2: Test Reliability Metric 3: Metric 4: Reliability/Analytical Method	thalates: Annexes.	
Template: Junction HERO ID: 7325405 Parameter Data CASRN and Test Material 84-74-2; dibutyl phthalate Confidentiality, Type, and Guideline none; not specified; not specified Solvent, Reactivity, Storage, and Stability NR; NR; NR; NR Radiolabel, Source, State, and Purity NR; NR; liquid; NR Results Value Oily liquid Results Details Not Reported Domain Metric Domain 1: Substance Metric 1: Metric 2: Appropriateness Domain 2: Test Reliability Metric 3: Metric 3: Reliability/Unbiased (Method Objectivity) Metric 4: Reliability/Analytical Method Domain 3: Other Store		
HERO ID: 7325405 Parameter Data CASRN and Test Material 84-74-2; dibutyl phthalate Confidentiality, Type, and Guideline none; not specified; not specified Solvent, Reactivity, Storage, and Stability NR; NR; NR; NR Radiolabel, Source, State, and Purity NR; NR; NR; liquid; NR Results Value Oily liquid Results Details Not Reported Domain Metric Domain 1: Substance Metric 1: Metric 2: Appropriateness Domain 2: Test Reliability Metric 3: Metric 4: Reliability/Unbiased (Method Objectivity) Metric 4: Reliability/Analytical Method Domain 3: Other		
Parameter Data CASRN and Test Material 84-74-2; dibutyl phthalate Confidentiality, Type, and Guideline none; not specified; not specified Solvent, Reactivity, Storage, and Stability NR; NR; NR; NR Radiolabel, Source, State, and Purity NR; NR; NR; liquid; NR Results Value Oily liquid Results Details Not Reported Domain Metric Domain 1: Substance Metric 1: Metric 2: Appropriateness Domain 2: Test Reliability Metric 3: Metric 4: Reliability/Analytical Method Domain 3: Other United to the second secon		
CASRN and Test Material Confidentiality, Type, and Guideline Solvent, Reactivity, Storage, and Stability Radiolabel, Source, State, and Purity Results Value Results Details Not Reported Domain 1: Substance Metric 1: Metric 2: Domain 2: Test Reliability Metric 4: Results Value Metric 4: Metric 1: Reliability/Unbiased (Method Objectivity) Metric 4: Reliability/Analytical Method		
CASRN and Test Material Confidentiality, Type, and Guideline Solvent, Reactivity, Storage, and Stability Radiolabel, Source, State, and Purity Results Value Results Details Not Reported Domain 1: Substance Metric 1: Metric 2: Domain 2: Test Reliability Metric 4: Results Other Metric 3: Metric 4: Metric 1: Reliability/Unbiased (Method Objectivity) Metric 4: Reliability/Analytical Method	EXTRACTIO	N
Confidentiality, Type, and Guideline none; not specified; not specified Solvent, Reactivity, Storage, and Stability NR; NR; NR; NR Radiolabel, Source, State, and Purity NR; NR; NR; NR Results Value Oily liquid Results Details Not Reported Domain Metric Domain 1: Substance Metric 1: Metric 2: Appropriateness Domain 2: Test Reliability Metric 3: Metric 4: Reliability/Analytical Method Domain 3: Other Metric		
Solvent, Reactivity, Storage, and Stability Radiolabel, Source, State, and Purity Results Value Results Details Not Reported Domain 1: Substance Metric 1: Metric 2: Appropriateness Domain 2: Test Reliability Metric 3: Reliability/Unbiased (Method Objectivity) Metric 4: Reliability/Analytical Method		
Radiolabel, Source, State, and Purity NR; NR; liquid; NR Results Value Oily liquid Results Details Not Reported Domain Metric Domain 1: Substance Metric 1: Metric 2: Appropriateness Domain 2: Test Reliability Metric 3: Metric 4: Reliability/Analytical Method Domain 3: Other Metric 4:		
Results Value Oily liquid Results Details Not Reported Domain Metric Domain 1: Substance Metric 1: Metric 2: Appropriateness Domain 2: Test Reliability Metric 3: Metric 4: Reliability/Unbiased (Method Objectivity) Metric 4: Reliability/Analytical Method		
Results Details Not Reported Domain Metric Domain 1: Substance Metric 1: Metric 2: Appropriateness Domain 2: Test Reliability Metric 3: Metric 4: Reliability/Unbiased (Method Objectivity) Metric 4: Reliability/Analytical Method Domain 3: Other Metric 4:		
Domain Metric Domain 1: Substance Metric 1: Metric 2: Appropriateness Domain 2: Test Reliability Metric 3: Metric 4: Reliability/Unbiased (Method Objectivity) Metric 4: Domain 3: Other Domain 3: Other		
Domain 1: Substance Metric 1: Representativeness Metric 2: Appropriateness Domain 2: Test Reliability Metric 3: Reliability/Unbiased (Method Objectivity) Metric 4: Reliability/Analytical Method Domain 3: Other		
Domain 1: Substance Metric 1: Representativeness Metric 2: Appropriateness Domain 2: Test Reliability Metric 3: Reliability/Unbiased (Method Objectivity) Metric 4: Reliability/Analytical Method Domain 3: Other	EVALUATIO	 N
Metric 1: Representativeness Metric 2: Appropriateness Domain 2: Test Reliability Metric 3: Metric 3: Reliability/Unbiased (Method Objectivity) Metric 4: Reliability/Analytical Method Domain 3: Other	Rating	Comments
Metric 2: Appropriateness Domain 2: Test Reliability Metric 3: Metric 3: Reliability/Unbiased (Method Objectivity) Metric 4: Reliability/Analytical Method Domain 3: Other Image: Comparison of the second seco		
Domain 2: Test Reliability Metric 3: Reliability/Unbiased (Method Objectivity) Metric 4: Reliability/Analytical Method Domain 3: Other	High	Data are measured or estimated for the subject chemical substance.
Metric 3: Reliability/Unbiased (Method Objectivity) Metric 4: Reliability/Analytical Method Domain 3: Other	High	Measured data are consistent with the subject chemical substance structural features.
Metric 3: Reliability/Unbiased (Method Objectivity) Metric 4: Reliability/Analytical Method Domain 3: Other		
Metric 4: Reliability/Analytical Method Domain 3: Other	N/A	Rating of this factor is not applicable to this kind of information.
Domain 3: Other		
Domain 3: Other Metric 5: Databases	N/A	Rating of this factor is not applicable to this kind of information.
	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination	High	

* Related References: Source cited: EU RAR (2004) EU RAR (2004). European Chemicals Bureau (2004). European Union Risk Assessment Report. Dibutyl phthalate, with addendum 2004. Available at: http://esis.jrc.ec.europa.eu/doc/existing-chemicals/risk_assessment/REPORT/dibutylphthalatereport003.pdf

Study Citation: OECD Harmonized			bibutyl phthalate w	vith addendum to the environment section — 2004.
Template:	Physical Form of	or state		
HERO ID:	3661484			
			EXTRACTIO)N
Parameter		Data	EATRACIA	
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and	Guideline	no; not specified; NA		
Solvent, Reactivity, Storag	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State,	and Purity	NR; NR; liquid; >99% (w/w)		
Results Value		oily liquid		
Results Details		Not Reported		
			EVALUATIO)N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Reported data are consistent with the subject chemical substance structural features or other physical/chemical properties or behaviors.
Domain 2: Test Reliabil	lity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	N/A	Rating of this factor is not applicable to this kind of information.
	Metric 4:	Reliability/Analytical Method	N/A	Rating of this factor is not applicable to this kind of information.
Domain 3: Other				
	Metric 5:	Databases	Low	The data are from a primary source without expert peer-review or an unknown sec- ondary source without peer-review and references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

* Related References: specific reference not identified but include: Banerjee and Howard (1984), BASF (corporate data), BUA (1987), Hoyer and Pepperle (1958), Hüls (corporate data); Leyder and Boulanger (1983), Patty (1981)

Study Citation: OECD Harmonized		. Occupational health guideline for dibuty	lphthalate.	
Template:	Physical Form of	or state		
HERO ID:	10182525			
IIEKO ID.	10102525			
_			EXTRACTION	
Parameter		Data		
CASRN and Test Material		Not Reported; dibutyl phthalate		
Confidentiality, Type, and Guideline		No; not specified; NA		
Solvent, Reactivity, Storage, and Stability		NR; NR; NR; NR		
Radiolabel, Source, State, and Purity		NR; NR; Liquid; NR Notes: NR		
Results Value		Liquid		
Results Details		Colorless, oily liquid with a very weak, and	romatic odor	
			EVALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance			-	
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features or other physical/chemical properties or behaviors.
Domain 2: Test Reliabil	lity			
	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
		(Method Objectivity)		towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qualit	ty Determi	nation	Medium	

Study Citation: OECD Harmonized	NIOSH, (2007) Physical Form of	. NIOSH pocket guide to chemical hazar	ds.					
Template:	i nysicai i oini (Si State						
HERO ID:	192177							
			EXTRACTIO	N				
Parameter		Data						
CASRN and Test Material		84-74-2; Dibutyl phthalate						
Confidentiality, Type, and	Guideline	None; Experimental; Not reported						
Solvent, Reactivity, Storag	e, and Stability	NR; NR; NR; NR						
Radiolabel, Source, State,	and Purity	NR; NR; Liquid; NR Notes: NR						
Results Value		Colorless to faint-yellow; oily liquid; slight, aromatic odor						
Results Details		Not Reported						
			EVALUATIO	N				
Domain		Metric	Rating	Comments				
Domain 1: Substance								
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.				
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.				
Domain 2: Test Reliabil	lity							
	Metric 3:	Reliability/Unbiased (Method Objectivity)	N/A	Rating of this factor is not applicable to this kind of information.				
	Metric 4:	Reliability/Analytical Method	N/A	Rating of this factor is not applicable to this kind of information.				
Domain 3: Other								
	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.				
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.				
Overall Quali	tv Determi	nation	High					

Study Citation: OECD Harmonized	NLM, (2024). H Physical Form of	PubChem: Hazardous Substance Data Bar	nk: Dibutyl phth	alate, 84-74-2.
Template:	T hysical Polini	51 State		
HERO ID:	5926108			
			EXTRACTIO	N
Parameter		Data		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and	Guideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR		
Results Value		liquid		
Results Details		Not Reported		
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased	N/A	Rating of this factor is not applicable to this kind of information.
		(Method Objectivity)		
	Metric 4:	Reliability/Analytical Method	N/A	Rating of this factor is not applicable to this kind of information.
Domain 3: Other				
	Metric 5:	Databases	High	Data is from a publicly available and peer-reviewed database.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

* Related References: NIOSH. 2010. NIOSH Pocket Guide to Chemical Hazards. Department of Health & Human Services, Centers for Disease Control & Prevention. National Institute for Occupational Safety & Health. DHHS (NIOSH) Publication No. 2010-168.

Study Citation: OECD Harmonized	O'Neil, M. J. (2 Physical Form of	2013). Dibutyl phthalate. :550. or State		
Template:	5			
HERO ID:	5348015			
			EXTRACTIO	N
Parameter		Data		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and C	Guideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR		
Results Value		oily liquid		
Results Details		Not Reported		
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	N/A	Rating of this factor is not applicable to this kind of information.
	Metric 4:	Reliability/Analytical Method	N/A	Rating of this factor is not applicable to this kind of information.
Domain 3: Other				
	Metric 5:	Databases	High	Data is from a recognized data collection where data are peer-reviewed by experts in the field.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qualit	ty Determi	nation	High	

Study Citation: OECD Harmonized	RSC, (2019). C Physical Form	hemSpider: Dibutyl phthalate.		
Template:	r nysicar ronn o	of State		
HERO ID:	5926136			
			EXTRACTIO	N
Parameter		Data		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and C	Guideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR		
Results Value		liquid		
Results Details		Not Reported		
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	N/A	Rating of this factor is not applicable to this kind of information.
	Metric 4:	Reliability/Analytical Method	N/A	Rating of this factor is not applicable to this kind of information.
Domain 3: Other				
	Metric 5:	Databases	Medium	Data is from a publicly available secondary source with references to non-peer reviewed sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qualit	v Determi	nation	High	

* Related References: Oxford University Chemical Safety Data

Study Citation: OECD Harmonized	Rumble, J. R. (2 Physical Form	2018). Dibutyl phthalate. :3-16. or State		
Template:	5			
HERO ID:	5348244			
			EXTRACTIO	N
Parameter		Data		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and C	Guideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR		
Results Value		liquid		
Results Details		Not Reported		
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	N/A	Rating of this factor is not applicable to this kind of information.
	Metric 4:	Reliability/Analytical Method	N/A	Rating of this factor is not applicable to this kind of information.
Domain 3: Other				
	Metric 5:	Databases	High	Data is from a recognized data collection where data are peer-reviewed by experts in the field.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qualit			High	Rading of this factor is not appreaded to this kind of information.

Study Citation: OECD Harmonized	Elsevier, (2019) Physical Form o). Reaxys: physical-chemical property da or State	ta for dibutyl pht	halate. CAS Registry Number: 84-74-2
Template: HERO ID:	5926413			
			EXTRACTIO	N
Parameter		Data		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and	Guideline	None; Experimental; Not reported		
Solvent, Reactivity, Storag	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State,	and Purity	NR; NR; NR; NR		
Results Details		colorless		
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliabi	lity			
	Metric 3:	Reliability/Unbiased	N/A	Rating of this factor is not applicable to this kind of information.
	Metric 4:	(Method Objectivity) Reliability/Analytical Method	N/A	Rating of this factor is not applicable to this kind of information.
Domain 3: Other				
	Metric 5:	Databases	High	Data is from a peer-reviewed database that contains references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

* Related References: Value reported by multiple primary sources in REAXYS.

Study Citation:			data for dibutyl pht	halate. CAS Registry Number: 84-74-2
OECD Harmonized	Physical Form of	or State		
Template: HERO ID:	5926413			
	5920415			
			EXTRACTIO	N
Parameter		Data		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and C	Guideline	None; Experimental; Not reported		
Solvent, Reactivity, Storage		NR; NR; NR; NR		
Radiolabel, Source, State, a	nd Purity	NR; NR; NR; NR		
Results Details		yellow		
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased	N/A	Rating of this factor is not applicable to this kind of information.
		(Method Objectivity)		
	Metric 4:	Reliability/Analytical Method	N/A	Rating of this factor is not applicable to this kind of information.
Domain 3: Other				
	Metric 5:	Databases	High	Data is from a peer-reviewed database that contains references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

* Related References: Value reported by multiple primary sources in REAXYS.

Study Citation: OECD Harmonized	Elsevier, (2019) Physical Form of		lata for dibutyl pht	halate. CAS Registry Number: 84-74-2
Template: HERO ID:	5926413			
			EXTRACTIO	N
Parameter		Data		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and	Guideline	None; Experimental; Not reported		
Solvent, Reactivity, Storag	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State,	and Purity	NR; NR; NR; NR		
Results Details		white		
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliabi	lity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	N/A	Rating of this factor is not applicable to this kind of information.
	Metric 4:	Reliability/Analytical Method	N/A	Rating of this factor is not applicable to this kind of information.
Domain 3: Other				
	Metric 5:	Databases	High	Data is from a peer-reviewed database that contains references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

* Related References: Value reported by multiple primary sources in REAXYS.

r State Data 84-74-2; Dibutyl phthalate	EXTRACTIO	N
	EXTRACTIO	N State Stat
	EXTRACTIO	N
84-74-2; Dibutyl phthalate		
None; Experimental; Not reported		
NR; NR; NR; NR		
NR; NR; NR; NR		
colorless to faint yellow, oily liquid, slight	t aromatic odor	
	EVALUATIO	N
Metric	Rating	Comments
Representativeness	High	Data are measured or estimated for the subject chemical substance.
Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Reliability/Unbiased	N/A	Rating of this factor is not applicable to this kind of information.
(Method Objectivity) Reliability/Analytical Method	N/A	Rating of this factor is not applicable to this kind of information.
Databases	High	Data is from a publicly available and peer-reviewed database.
Models	N/A	Rating of this factor is not applicable to this kind of information.
	Models	

* Related References: NIOSH. 2010. NIOSH Pocket Guide to Chemical Hazards. Department of Health & Human Services, Centers for Disease Control & Prevention. National Institute for Occupational Safety & Health. DHHS (NIOSH) Publication No. 2010-168.

Study Citation:		hemSpider: Dibutyl phthalate.		
OECD Harmonized Template:	Physical Form of	or State		
HERO ID:	5926136			
	5720150			
			EXTRACTIO	N
Parameter		Data		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and O	Guideline	None; Experimental; Not reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR		
Results Details		colorless, viscous		
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	N/A	Rating of this factor is not applicable to this kind of information.
	Metric 4:	Reliability/Analytical Method	N/A	Rating of this factor is not applicable to this kind of information.
Domain 3: Other				
	Metric 5:	Databases	Medium	Data is from a publicly available secondary source with references to non-peer reviewed original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

* Related References: Oxford University Chemical Safety Data

Study Citation: OECD Harmonized		Exposure assessment: Composition, pro	duction, and use of pht	halates.
Template:	Melting Point			
HERO ID:	5155508			
			EXTRACTION	
Parameter		Data		
Melting Point		-65 °C		
CASRN and Test Material		84-74-2; dibutyl phthalate		
Confidentiality, Type, and	Guideline	no; not specified; Not Reported		
Solvent, Reactivity, Storage		NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; liquid; NR		
Results Details Methods		Not Reported		
Standard Deviation Results		Not Reported		
Results Details		Not Reported		
			EVALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	The data are measured for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with other physical/chemical properties.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
		(Method Objectivity)		towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other				
	Metric 5:	Databases	Medium	The data are from a source that is known but is missing peer-review.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

* Related References: CPSC (U.S. Consumer Product Safety Commission). 2010. Review of Exposure Data and Assessments for Selected Dialkyl Ortho-Phthalates. Consumer Product Safety Commission, CPSC-D-06-0006, Bethesda, MD. Available at: http://www.cpsc.gov/pagefiles/126552/pthalexp.pdf.

Study Citation:		able 1: Chemicals of concern and asso	ciated chemical inf	ormation. PACs.
OECD Harmonized Template:	Melting Point			
HERO ID:	3981013			
	3981013			
			EXTRACTIO	N
Parameter		Data		
Melting Point		-35 - °C		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and C	Guideline	none; not specified; none		
Solvent, Reactivity, Storage		NR; NR; NR; NR		
Radiolabel, Source, State, a		NR; NR; NR; NR Notes: NR		
Results Details Methods		not reported		
Standard Deviation Results		not reported		
Results Details		not reported		
D .			EVALUATIO	
Domain		Metric	Rating	Comments
Domain 1: Substance	Metric 1:	Democrate	II: -1-	
	Metric 1: Metric 2:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features.
Domain 2: Test Reliabil	itv			
	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
		(Method Objectivity)		towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's
				inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
Domain 5. Other	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are
	Metric 5.	Databases	rigi	peer-reviewed by experts in the field, are broadly available to the public for review; specific source not reported.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qualit			High	

* Related References: primary reference not specified but include CRC (2009), HSDB (no date), Merck (2006), SAX (2012)

Study Citation:			EC/HC, (2015). State of the science report: Phthalate substance grouping: Medium-chain phthalate esters: Chemical Abstracts Service Registry Numbers: 84-61-7; 84-64-0; 84-69-5; 523-31-9; 5334-09-8; 16883-83-3; 27215-22-1; 27987-25-3; 68515-40-2; 71888-89-6.			
OECD Harmonized	Melting Point	-0; 84-09-3; 523-31-9; 5354-09-8;1088.	5-85-5; 27215-22-1; 279	87-25-3; 08515-40-2; 71888-89-0.		
Template:	-					
HERO ID:	3688160					
			EXTRACTION			
Parameter		Data				
Melting Point		< -70 °C				
CASRN and Test Material		84-74-2; dibutyl phthalate				
Confidentiality, Type, and	Guideline	no; experimental; Not Reported				
Solvent, Reactivity, Storage		NR; NR; NR; NR				
Radiolabel, Source, State, a	and Purity	NR; NR; liquid; NR				
Results Details Methods		Not Reported				
Standard Deviation Results		Not Reported				
Results Details		Not Reported				
			EVALUATION			
Domain		Metric	Rating	Comments		
Domain 1: Substance			TT' 1			
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.		
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features or other physical/chemical properties or behaviors.		
Domain 2: Test Reliabil	ity					
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.		
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.		
Domain 3: Other						
	Metric 5:	Databases	Medium	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.		
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.		
Overall Qualit	ty Determi	nation	Medium			

* Related References: cites: [ECHA] European Chemicals Agency. c2007–2014a. Registered substances database. Helsinki (FI): ECHA. [cited 2013 July]. Available from: www.echa.europa.eu/information-on-chemicals/registered-substances

Study Citation:				Socio-economic Analysis (SEAC): Background document to the Opinion on the
OECD Harmonized	Annex XV doss Melting Point	sier proposing restrictions on four phthala	ites: Annexes.	
Template:	intering Form			
HERO ID:	7325405			
			EXTRACTIO	N
Parameter		Data		
Melting Point		-69 °C		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and	Guideline	none; not specified; not specified		
Solvent, Reactivity, Storage		NR; NR; NR; NR		
Radiolabel, Source, State, a		NR; NR; liquid; NR		
Results Details Methods		not reported		
Standard Deviation Results	8	not reported		
Results Details		not reported		
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features.
Domain 2: Test Reliabil	lity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other				
	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quali	ty Dotormi	nation	High	

* Related References: Source cited: EU RAR (2004) EU RAR (2004). European Chemicals Bureau (2004). European Union Risk Assessment Report. Dibutyl phthalate, with addendum 2004. Available at: http://esis.jrc.ec.europa.eu/doc/existing-chemicals/risk_assessment/REPORT/dibutylphthalatereport003.pdf

Study Citation: OECD Harmonized	ECJRC, (2004). Melting Point	. Summary Risk Assessment Report: D	bibutyl phthalate with ad	dendum to the environment section — 2004.
Template:	-			
HERO ID:	3661484			
			EXTRACTION	
Parameter		Data		
Melting Point		-69 °C		
CASRN and Test Material		84-74-2; dibutyl phthalate		
Confidentiality, Type, and O	Guideline	no; not specified; Not Reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; liquid; >99% (w/w)		
Results Details Methods		Not Reported		
Standard Deviation Results		Not Reported		
Results Details		Not Reported		
			EVALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Reported data are consistent with the subject chemical substance structural features.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qualit	ty Determi	nation	Medium	

* Related References: specific reference not identified but include: Banerjee and Howard (1984), BASF (corporate data), BUA (1987), Hoyer and Pepperle (1958), Hüls (corporate data); Leyder and Boulanger (1983), Patty (1981)

Study Citation: OECD Harmonized Template:	Elsevier, (2019) Melting Point	. Reaxys: physical-chemical property dat	ta for dibutyl pht	halate. CAS Registry Number: 84-74-2			
HERO ID:	5926413						
			EXTRACTIO	N			
Parameter		Data					
Melting Point		-35 °C					
CASRN and Test Material		84-74-2; Dibutyl phthalate					
Confidentiality, Type, and C	Guideline	None; Experimental; Not Reported					
Solvent, Reactivity, Storage	, and Stability	NR; NR; NR; NR					
Radiolabel, Source, State, and Purity		NR; NR; NR; NR					
Results Details Methods		Measured conditions were not reported; 5 values were reported in Reaxys; 1 of these value was reported as -35°C; 1 data point was outside the					
		range.					
Standard Deviation Results		Not Reported Not Reported					
Results Details		Not Reported					
			EVALUATIO	N			
Domain		Metric	Rating	Comments			
Domain 1: Substance							
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.			
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.			
Domain 2: Test Reliabili	ty						
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.			
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclu- sion in a peer-reviewed/recognized database or other secondary source.			
Domain 3: Other							
	Metric 5:	Databases	High	Data is from a secondary database with a references to the peer-reviewed original source.			
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.			
Overall Qualit	v Determi	nation	High				

* Related References: Data range determined from multiple primary sources in REAXYS.

Study Citation: OECD Harmonized	NIOSH, (1976) Melting Point	. Occupational health guideline for dib	utylphthalate.	
Template:	interting I onit			
HERO ID:	10182525			
			EXTRACTION	
Parameter		Data		
Melting Point		-37 - °C		
CASRN and Test Material		Not Reported; Dibutyl phthalate		
Confidentiality, Type, and	Guideline	No; Not specified; NR		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR		
Results Details Methods		NR		
Standard Deviation Results		NR		
Results Details		-35 F		
			EVALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features or other physical/chemical properties or behaviors.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qualit			Medium	

Study Citation: OECD Harmonized		. NIOSH pocket guide to chemical hazar	ds.	
Template:	Melting Point			
HERO ID:	192177			
			EXTRACTIO	N
Parameter		Data		
Melting Point		-31 - F		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and	Guideline	None; Experimental; Not reported		
Solvent, Reactivity, Storage		NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR Notes: NR		
Results Details Methods		NR		
Standard Deviation Results		NR		
Results Details		Reported as freezing point		
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
		(Method Objectivity)		towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclu- sion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	Medium	Data is from a recognized, peer-reviewed data collection.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qualit	tv Determi	nation	High	

Study Citation: OECD Harmonized	NIST, (2022). N Melting Point	IIST Chemistry WebBook: Dibutyl pht	halate (84-74-2), S	tandard Reference Database No. 69.
Template:	-			
HERO ID:	10225264			
			EXTRACTIO	N
Parameter		Data		
Melting Point		238 - К		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and O		No; not specified; NA		
Solvent, Reactivity, Storage		NR; NR; NR; NR		
Radiolabel, Source, State, a	nd Purity	NR; NR; NR; NR		
Results Details Methods		NR		
Standard Deviation Results		NR		
Results Details		Not Reported		
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features or other physical/chemical properties or behaviors.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source
Domain 3: Other				
	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qualit	v Determi	nation	High	

* Related References: Citing Buckingham, J.; Donaghy, S.M., Dictionary of Organic Compounds: Fifth Edition, Chapman and Hall, New York, 1982, 1.. Similar values reported in Distiller for HERO IDs 679850, 1322045, 5155508, 5348244, 5926108, 5926136, 5926161, 5926413 and 7324826.

Study Citation: OECD Harmonized	NIST, (2022). N Melting Point	NIST Chemistry WebBook: Dibutyl phtha	alate (84-74-2), S	tandard Reference Database No. 69.
Template:	Menting I onit			
HERO ID:	10225264			
				N
Parameter		Data	EXTRACTIO	N
rarameter		Data		
Melting Point		Not Reported		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and C	Guideline	No; not specified; NA		
Solvent, Reactivity, Storage		NR; NR; NR; NR		
Radiolabel, Source, State, a		NR; NR; NR; NR		
Results Details Methods	•	NR		
Standard Deviation Results		NR		
Results Details		Enthalpy of sublimation at standard cond	litions = Δ subH°=	89.54 kJ/mol based on Vapor pressure method
			EVALUATIO	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased	N/A	Rating of this factor is not applicable to this kind of information.
		(Method Objectivity)		- **
	Metric 4:	Reliability/Analytical Method	N/A	Rating of this factor is not applicable to this kind of information.
Domain 3: Other				
	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
				- 11
Overall Qualit	ty Determi	nation	High	

* Related References: Citing Hickman, K.C.D.; Hecker, J.C.; Embree, N.D., Direct determination of low vapor pressures, Ind. Eng. Chem., 1937, 9, 264-267.

Study Citation: OECD Harmonized	NLM, (2024). I Melting Point	PubChem: Hazardous Substance Data Bar	ık: Dibutyl phtha	alate, 84-74-2.
Template:	Wenning Folin			
HERO ID:	5926108			
	3720100			
Parameter		Data	EXTRACTIO	N
rarameter		Data		
Melting Point		-35 °C		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and (Guideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storage		NR; NR; NR; NR		
Radiolabel, Source, State, a		NR; NR; NR; NR		
Results Details Methods	, and the second s	Not Reported		
Standard Deviation Results		Not Reported		
Results Details		Not Reported		
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliabil	ity			
20 num 2. rest rendom	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
		(Method Objectivity)		towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclu- sion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
Domain 5: Other	Metric 5:	Databases	Uiah	Date is from a multiply available man any available database that many database the
	wieuric 5:	Databases	High	Data is from a publicly available, peer-reviewed database that provides references to a recognized data collection.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
				C 11
Overall Qualit	t <mark>v Determ</mark> i	nation	High	

* Related References: Haynes, W.M. (Ed.) 2014. CRC Handbook of Chemistry and Physics. 95th Edition. CRC Press LLC, Boca Raton: FL 2014. p. 3-156.

PUBLIC RELEASE DRAFT May 2025 Melting Point

Study Citation: OECD Harmonized	Park, C., Sheeh Melting Point	an, R. J. (2000). Phthalic acids and othe	er benzenepolycart	poxylic acids. :1-45.
Template: HERO ID:	679796			
-			EXTRACTIO	N
Parameter		Data		
Melting Point		-40 °C		
CASRN and Test Material		84-74-2; dibutyl phthalate		
Confidentiality, Type, and	Guideline	None; Experimental; Not reported		
Solvent, Reactivity, Storag	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State,	and Purity	NR; NR; NR; NR		
Results Details Methods		Not Reported		
Standard Deviation Results	8	Not reported		
Results Details		Not Reported		
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features or
				other physical/chemical properties or behaviors.
Domain 2: Test Reliabi	lity			
	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
		(Method Objectivity)		towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate OR the analyti-
		· · ·		cal method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quali	tv Determi	nation	High	

Study Citation: OECD Harmonized	RSC, (2019). C Melting Point	hemSpider: Dibutyl phthalate.		
Template:	Weiting Folin			
HERO ID:	5926136			
	0,20100			
Parameter		Data	EXTRACTION	
r ai ainetei		Data		
Melting Point		-35 °C		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and	Guideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storage, and Stability		NR; NR; NR; NR		
Radiolabel, Source, State,		NR; NR; NR; NR		
Results Details Methods		Not Reported		
Standard Deviation Results	5	Not Reported		
Results Details		Not Reported		
			EVALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliabil	itv			
	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
		(Method Objectivity)		towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other				
Domain J. Outer	Metric 5:	Databases	Medium	Data is from a publicly available secondary source with references to non-peer reviewed sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quali	tv Determi	nation	Medium	

* Related References: Biosynth

Study Citation: OECD Harmonized	Rumble, J. R. (2 Melting Point	2018). Dibutyl phthalate. :3-16.		
Template:	Menning Folint			
HERO ID:	5348244			
	5546244			
_			EXTRACTIO	N
Parameter		Data		
Melting Point		-35 °C		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and C	Juideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storage		NR; NR; NR; NR		
Radiolabel, Source, State, a		NR; NR; NR; NR		
Results Details Methods	ild Fully	Not Reported		
Standard Deviation Results		Not Reported		
Results Details		Not Reported		
			EVALUATIO	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliabili	tv			
	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
		(Method Objectivity)		towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclu- sion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	High	Data is from a recognized, peer-reviewed data collection.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
		.	TT • 1	
Overall Qualit	y Determi	nation	High	

Study Citation: Saido, K., Kuroki, T., Ikemura, T., Kirisawa, M. (1985). Thermal stability of phthalate esters: Effect of substituents on the β -carbon atom. J Analytical and Applied Pyrolysis 9(1):29-34.				
OECD Harmonized	Melting Point			
Template:				
HERO ID: 5576238				
		EXTRACTION		
Parameter		Data		
Melting Point		Not Reported		
CASRN and Test Material	l	NR; dibutyl phthalate		
Confidentiality, Type, and	Guideline	No; experimental; thermogravimetry and differential thermal analysis		
Solvent, Reactivity, Storag	ge, and Stability	NA; NA; NA		
Radiolabel, Source, State,	and Purity	NA; commercial source; NR; NR		
Results Details Methods		HPLC, IR, NMR and MS used for the identification of the products		
Standard Deviation Result	s	Not Reported		
Results Details Therm a heating the second s		Thermogravimetry weight loss with a heating rate of 2 deg C/min of 3% at 141 deg C and 5% at 149 deg C.Thermogravimetry weight loss with a heating rate of 5 deg C/min and nitrogen flow-rate of 15 ml/min of 3% at 160 deg C and 5% at 169 deg C.Differential thermal analysis with a heating rate 10 deg C/min: 205 (initial value) and 214 deg C (max value).		

			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliab	oility			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	High	The methodology for producing the information is designed to answer a specific ques- tion, and the methodology's objective is clear.
	Metric 4:	Reliability/Analytical Method	High	Data are obtained by accepted standard analytical methods, including, but not limited to OECD guidelines for physical-chemical properties or other developed standard.
Domain 3: Other				
	Metric 5:	Databases	N/A	Rating of this factor is not applicable to this kind of information.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Study Citation: OECD Harmonized	U.S. EPA, (2019 Melting Point	9). Chemistry Dashboard Information for	Dibutyl Phthala	te. 84-74-2
Template:	Wenning Folin			
HERO ID:	5926161			
	0,20101			A.T.
Parameter		Data	EXTRACTIO	N
rarameter		Data		
Melting Point		-35 °C		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and	Guideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storage		NR; NR; NR; NR		
Radiolabel, Source, State, a		NR; NR; NR; NR		
Results Details Methods	····2	Not Reported		
Standard Deviation Results	3	Not Reported		
Results Details		Not Reported		
			EVALUATIO	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliabil	itv			
	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
		(Method Objectivity)		towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclu- sion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
Domain 5. Other	Metric 5:	Databases	High	Data is from a publicly available database that provides references to the original, peer- reviewed source.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quali	tv Determi	nation	High	

* Related References: PhysProp

Study Citation: OECD Harmonized	U.S. EPA, (2019 Melting Point	9). Chemistry Dashboard Information for	r Dibutyl Phthala	te. 84-74-2
Template:	Metting Folin			
HERO ID:	5926161			
			EXTRACTIO	N
Parameter		Data		
Melting Point		-35 °C		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and	Guideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storag		NR; NR; NR; NR		
Radiolabel, Source, State,	and Purity	NR; NR; NR; NR		
Results Details Methods		Not Reported		
Standard Deviation Results	S	Not Reported		
Results Details		Not Reported		
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliabil	lity			
	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	(Method Objectivity) Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclu- sion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	High	Data is from a publicly available database that references a peer-reviewed source.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quali	ty Dotormi	nation	High	

* Related References: NIOSH

Study Citation: OECD Harmonized	U.S. EPA, (201 Melting Point	9). Chemistry Dashboard Information for	or Dibutyl Phthalate. 84	4-74-2
Template:	-			
HERO ID:	5926161			
			EXTRACTION	
Parameter		Data		
Melting Point		-35 °C		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and Guideline		None; Experimental; Not Reported		
Solvent, Reactivity, Storage, and Stability		NR; NR; NR; NR		
Radiolabel, Source, State,	and Purity	NR; NR; NR; NR		
Results Details Methods		Not Reported		
Standard Deviation Result	8	Not Reported		
Results Details		Not Reported		
			EVALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliabi	lity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other				
	Metric 5:	Databases	Medium	Data is from a publicly available secondary source with references to non-peer reviewed sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quali	tv Determi	nation	Medium	

* Related References: Jean-Claude Bradley Open Melting Point Dataset

Study Citation: OECD Harmonized	U.S. EPA, (201 Melting Point	9). Chemistry Dashboard Information f	or Dibutyl Phthalate. 84	I-74-2
Template: HERO ID:	5926161			
			EXTRACTION	
Parameter		Data		
Melting Point		-35 °C		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and Guideline		None; Experimental; Not Reported		
Solvent, Reactivity, Storag	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State,	and Purity	NR; NR; NR; NR		
Results Details Methods		Not Reported		
Standard Deviation Results	8	Not Reported		
Results Details		Not Reported		
			EVALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliabil	lity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other				
	Metric 5:	Databases	Medium	Data is from a publicly available secondary source with references to non-peer reviewed sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quali	tv Determi	nation	Medium	

* Related References: Oxford University Chemical Safety Data

Study Citation: OECD Harmonized	U.S. EPA, (201 Melting Point	9). Chemistry Dashboard Information for	or Dibutyl Phthalate. 84	I-74-2
Template:	Wienning I Ollit			
HERO ID:	5926161			
			EXTRACTION	
Parameter		Data	EATRACTION	
		Dutu		
Melting Point		-35 °C		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and	Guideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storag	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State,	and Purity	NR; NR; NR; NR		
Results Details Methods		Not Reported		
Standard Deviation Results	s	Not Reported		
Results Details		Not Reported		
			EVALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliabil	lity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other				
	Metric 5:	Databases	Medium	Data is from a publicly available secondary source with references to non-peer reviewed sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quali	tv Determi	nation	Medium	

* Related References: Alfa Aesar

Study Citation: OECD Harmonized	U.S. EPA, (201 Melting Point	9). Chemistry Dashboard Information for	or Dibutyl Phthalate. 84	I-74-2
Template:	Wienning I Ollit			
HERO ID:	5926161			
			EXTRACTION	
Parameter		Data	EATRACTION	
		Dutu		
Melting Point		-35 °C		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and	Guideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storag	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State,	and Purity	NR; NR; NR; NR		
Results Details Methods		Not Reported		
Standard Deviation Results	s	Not Reported		
Results Details		Not Reported		
			EVALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliabil	lity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other				
	Metric 5:	Databases	Medium	Data is from a publicly available secondary source with references to non-peer reviewed sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quali	tv Determi	nation	Medium	

* Related References: Alfa Aesar

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Study Citation: Wang, L. M., Richert, R. (2007). Glass transition dynamics and boiling temperatures of molecular liquids and their isomers. Journal of Physical Ch B 111(12):3201-3207.				mperatures of molecular liquids and their isomers. Journal of Physical Chemistry					
OECD Harmonized	Melting Point								
Template:									
HERO ID:	680451	680451							
			EXTRACTIO	Ň					
Parameter		Data							
Melting Point		177.4 K							
CASRN and Test Material		84-74-2; Di-n-butyl phthalate							
Confidentiality, Type, and	Guideline	None; Experimental; Not Reported							
Solvent, Reactivity, Storage, and Stability			ges to the glass tran	sition temperature					
Radiolabel, Source, State, and Purity		NR; Aldrich; NR; 99%	NR; NR; Stable in temperature ranges to the glass transition temperature						
Results Details Methods		Not Reported							
Standard Deviation Results		Not Reported							
Results Details		1	Value is a glass transition temperature.						
			EVALUATIO	N					
Domain		Metric	Rating	Comments					
Domain 1: Substance									
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.					
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance's other physi- cal/chemical properties.					
Domain 2: Test Reliabil	lity								
	Metric 3:	Reliability/Unbiased	High	The methodology for producing the information is designed to answer a specific ques-					
		(Method Objectivity)		tion, and the methodology's objective is clear.					
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate.					
Domain 3: Other									
	Metric 5:	Databases	High	Data are from a peer-reviewed primary source.					
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.					

Study Citation: OECD Harmonized	DOE, (2016). T Boiling Point	Cable 1: Chemicals of concern and assoc	ciated chemical inf	formation. PACs.
Template:	C			
HERO ID:	3981013			
			EXTRACTIO	N
Parameter		Data		
Boiling Point		340 - С		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and	Guideline	none; not specified; not specified		
Solvent, Reactivity, Storage, and Stability		NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR Notes: NR		
Standard Deviation Results		not reported		
Results Details		@ 760 mm Hg		
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review; specific source not reported.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qualit	v Determi	nation	High	

* Related References: primary reference not specified but include CRC (2009), HSDB (no date), Merck (2006), SAX (2012)

Study Citation:				Socio-economic Analysis (SEAC): Background document to the Opinion on the
OECD Harmonized	Annex XV doss Boiling Point	sier proposing restrictions on four phtha	lates: Annexes.	
Template:	Bonnig Fond			
HERO ID:	7325405			
			EXTRACTIO	N
Parameter		Data		
Boiling Point		340 C		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and	Guideline	none; not specified; not specified		
Solvent, Reactivity, Storag	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State,	and Purity	NR; NR; liquid; NR		
Standard Deviation Results	3	not specified		
Results Details		at 1013 hPa		
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features.
Domain 2: Test Reliabil	lity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other				
	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quali	tv Determi	nation	High	

* Related References: Source cited: EU RAR (2004) EU RAR (2004). European Chemicals Bureau (2004). European Union Risk Assessment Report. Dibutyl phthalate, with addendum 2004. Available at: http://esis.jrc.ec.europa.eu/doc/existing-chemicals/risk_assessment/REPORT/dibutylphthalatereport003.pdf

Study Citation: OECD Harmonized	ECJRC, (2004). Boiling Point	Summary Risk Assessment Report: D	bibutyl phthalate with ad	dendum to the environment section — 2004.
Template:	Bonnig Fonit			
HERO ID:	3661484			
			EXTRACTION	
Parameter		Data		
Boiling Point		340 C		
CASRN and Test Material		84-74-2; dibutyl phthalate		
Confidentiality, Type, and	Guideline	no; not specified; Not Reported		
Solvent, Reactivity, Storag		NR; NR; NR; NR		
Radiolabel, Source, State,	and Purity	NR; NR; liquid; >99% (w/w)		
Standard Deviation Result	s	Not Reported		
Results Details		at 1,013 hPa		
			EVALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Reported data are consistent with the subject chemical substance structural features.
Domain 2: Test Reliabi	lity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

* Related References: specific reference not identified but include: Banerjee and Howard (1984), BASF (corporate data), BUA (1987), Hoyer and Pepperle (1958), Hüls (corporate data); Leyder and Boulanger (1983), Patty (1981)

Study Citation: OECD Harmonized	Elsevier, (2019) Boiling Point	. Reaxys: physical-chemical property dat	a for dibutyl pht	halate. CAS Registry Number: 84-74-2
Template: HERO ID:	5926413			
	5720115		EXTRACTIO	N
Parameter		Data	EATRACTIO	1
Deiline Deint		240.7.0		
Boiling Point CASRN and Test Material		340.7 C 84-74-2; Dibutyl phthalate		
Confidentiality, Type, and C	Juideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storage		NR; NR; NR; NR		
Radiolabel, Source, State, a		NR; NR; NR; NR		
Standard Deviation Results		Not Reported		
Results Details		@ 763 torr; 12 values were reported in Re at unreported or non-standard pressures.	eaxys; 1 of these va	alues was reported as 340.7 C at 763 torr; 11 values were outside this range or measured
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliabili	ty			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclu- sion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	High	Data is from a secondary database with a references to the peer-reviewed original source.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qualit	v Determi	nation	High	

* Related References: Data range determined from multiple primary sources in REAXYS.

Study Citation: OECD Harmonized	NIOSH, (1976) Boiling Point	. Occupational health guideline for dibu	tylphthalate.	
Template:	Doning I onit			
HERO ID:	10182525			
IIEKO ID.	10182323			
			EXTRACTION	
Parameter		Data		
Boiling Point		335 - C		
CASRN and Test Material		NR; Dibutyl phthalate		
Confidentiality, Type, and	Guideline	No; Not specified; NR		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR		
Standard Deviation Results	5	NR		
Results Details		boiling point measured at 760 mm Hg;	635 F	
			EVALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features or other physical/chemical properties or behaviors.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qualit	ty Determi	nation	Medium	

Study Citation: OECD Harmonized	NIOSH, (2007) Boiling Point	. NIOSH pocket guide to chemical haze	ards.	
Template: HERO ID:	192177			
			EXTRACTIO	N
Parameter		Data		1
Boiling Point		644 - F		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and	Guideline	None; Experimental; None		
Solvent, Reactivity, Storag	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State,	and Purity	NR; NR; NR; NR Notes: NR		
Standard Deviation Results	3	NR		
Results Details		at 1 atmosphere		
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliabil	lity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclu- sion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quali	tv Determi	nation	High	

Study Citation: OECD Harmonized		NIST Chemistry WebBook: Dibutyl pht	halate (84-74-2), S	tandard Reference Database No. 69.
Template:	Boiling Point			
HERO ID:	10225264			
IIEKO ID.	10223204			
_			EXTRACTIO	N
Parameter		Data		
Boiling Point		613.2 - К		
CASRN and Test Materia	1	84-74-2; Dibutyl phthalate		
Confidentiality, Type, and	l Guideline	No; not specified; NR		
Solvent, Reactivity, Storag	ge, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State,		NR; NR; NR; NR		
Standard Deviation Result	ts	NR		
Results Details		Not Reported		
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features or other physical/chemical properties or behaviors.
Domain 2: Test Reliabi	ility			
20 mun 2. Test Kellab	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quali	itv Determi	nation	High	

* Related References: Citing CRC Handbook of Data on Organic Compounds, 2nd Edition, Weast, R.C and Grasselli, J.G., ed(s)., CRC Press, Inc., Boca Raton, FL, 1989, 1. Similar value reported in Distiller for HERO IDs 679796, 679850, 1322045, 3661424, 3661484, 3688160, 5155508, 5348015, 5926108, 5926161, 7265437, 7324826, 7325405.

Study Citation: OECD Harmonized	NLM, (2024). F Boiling Point	PubChem: Hazardous Substance Data Bar	nk: Dibutyl phtha	alate, 84-74-2.
Template:	Bolling Pollit			
HERO ID:	5926108			
			EXTRACTIO	N
Parameter		Data		
Boiling Point		340 C		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and	Guideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR		
Standard Deviation Results	5	Not Reported		
Results Details		Not Reported		
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclu- sion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	High	Data is from a publicly available, peer-reviewed database that provides references to a recognized data collection.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quali	tv Determi	nation	High	

* Related References: O'Neil, M.J. (Ed.) 2013. The Merck Index - An Encyclopedia of Chemicals, Drugs, and Biologicals. Whitehouse Station, NJ: Merck and Co., Inc. 2006. p. 550

Boiling Point 5348015			
5348015			
5348015			
		EXTRACTIO	N
	Data		
	340 C		
	84-74-2; Dibutyl phthalate		
ideline	None; Experimental; Not Reported		
and Stability	NR; NR; NR; NR		
d Purity	NR; NR; NR; NR		
	Not Reported		
	Not Reported		
		EVALUATION	 N
	Metric	Rating	Comments
Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
ý			
Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclu- sion in a peer-reviewed/recognized database or other secondary source.
Metric 5:	Databases	High	Data is from a peer-reviewed data collection.
Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
	uideline and Stability d Purity Metric 1: Metric 2: y Metric 3: Metric 4: Metric 5: Metric 5:	340 C 84-74-2; Dibutyl phthalate nideline None; Experimental; Not Reported and Stability NR; NR; NR; NR d Purity NR; NR; NR; NR Not Reported Not Reported Metric Metric Metric 1: Representativeness Metric 2: Appropriateness y Metric 3: Reliability/Unbiased (Method Objectivity) Metric 4: Reliability/Analytical Method	340 C 84-74-2; Dibutyl phthalate nideline None; Experimental; Not Reported and Stability NR; NR; NR; NR d Purity NR; NR; NR; NR Not Reported Not Reported Not Reported Rating Metric 1: Representativeness Metric 2: Appropriateness Metric 3: Reliability/Unbiased Metric 4: Reliability/Analytical Method Metric 5: Databases Metric 6: Models

Study Citation: DECD Harmonized	Park, C., Sheeh Boiling Point	an, R. J. (2000). Phthalic acids and othe	er benzenepolycart	poxylic acids. :1-45.
Template:	-			
HERO ID:	679796			
			EXTRACTIO	N
Parameter		Data		
Boiling Point		340 C		
CASRN and Test Materia	al	84-74-2; dibutyl phthalate		
Confidentiality, Type, and	d Guideline	None; experimental; Not reported		
Solvent, Reactivity, Stora	ge, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State		NR; NR; NR; NR Notes: NR		
Standard Deviation Resul	lts	NR		
Results Details		Not Reported		
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features or other physical/chemical properties or behaviors.
Domain 2: Test Reliab	oility			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate OR the analyti- cal method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qual	ity Determi	nation	High	

Study Citation: OECD Harmonized	RSC, (2019). C Boiling Point	hemSpider: Dibutyl phthalate.		
Template:	Doning Fond			
HERO ID:	5926136			
			EXTRACTION	
Parameter		Data		
Boiling Point		339 - 340 C		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and	Guideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storag	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State,	and Purity	NR; NR; NR; NR		
Standard Deviation Results	5	Not Reported		
Results Details		Not Reported		
			EVALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliabil	lity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used
Domain 3: Other				
	Metric 5:	Databases	Medium	Data is from a publicly available secondary source with references to non-peer reviewed sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quali	tv Determi	nation	Medium	

* Related References: Alfa Aesar

Study Citation: OECD Harmonized	RSC, (2019). C Boiling Point	hemSpider: Dibutyl phthalate.		
Template:	Doning Fond			
HERO ID:	5926136			
			EXTRACTION	
Parameter		Data		
Boiling Point		337 C		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and	Guideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storag	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State,	and Purity	NR; NR; NR; NR		
Standard Deviation Results	6	Not Reported		
Results Details		Not Reported		
			EVALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used
Domain 3: Other				
	Metric 5:	Databases	Medium	Data is from a publicly available secondary source with references to non-peer reviewed sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quali	tv Determi	nation	Medium	

* Related References: Biosynth

Study Citation: OECD Harmonized	Rumble, J. R. (2 Boiling Point	2018). Dibutyl phthalate. :3-16.		
Template:	Bonnig Font			
HERO ID:	5348244			
			EXTRACTIO	N
Parameter		Data	LATRICITO	
Boiling Point		338 C		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and	Guideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR		
Standard Deviation Results	3	Not Reported		
Results Details		Not Reported		
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclu- sion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	High	Data is from a peer-reviewed data collection.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qualit	ty Determi	nation	High	

Study Citation: OECD Harmonized	Rumble, J. R. (2 Boiling Point	2018). Flammability of chemical substand	ces. :16-16 - 16-3	32.
Template:	Doming I omt			
HERO ID:	6655446			
			EXTRACTIO	N
Parameter		Data		
Boiling Point		338		
CASRN and Test Material		Not Reported; Dibutyl phthalate		
Confidentiality, Type, and	Guideline	none; experimental; Not Reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR		
Standard Deviation Results	-	Not reported		
Results Details		Not reported		
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	High	Data is from a known data-collection, prepared by experts in the field.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qualit	ty Determi	nation	High	

Study Citation: OECD Harmonized	U.S. EPA, (201 Boiling Point	U.S. EPA, (2019). Chemistry Dashboard Information for Dibutyl Phthalate. 84-74-2 Boiling Point						
Template: HERO ID:	5926161							
			EXTRACTIO	N				
Parameter		Data						
Boiling Point		340 C						
CASRN and Test Material		84-74-2; Dibutyl phthalate						
Confidentiality, Type, and	Guideline	None; Experimental; Not Reported						
Solvent, Reactivity, Storage		NR; NR; NR; NR						
Radiolabel, Source, State,	•	NR; NR; NR; NR						
Standard Deviation Results	1	Not Reported						
Results Details		Not Reported						
			EVALUATIO	N				
Domain		Metric	Rating	Comments				
Domain 1: Substance								
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.				
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.				
Domain 2: Test Reliabil	ity							
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.				
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclu- sion in a peer-reviewed/recognized database or other secondary source.				
Domain 3: Other								
	Metric 5:	Databases	High	Data is from a publicly available database that provides references to the original, peer- reviewed source.				
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.				
Overall Quali	v Determi	nation	High					

* Related References: PhysProp

Study Citation: OECD Harmonized	U.S. EPA, (201 Boiling Point	9). Chemistry Dashboard Information for	or Dibutyl Phthalate. 84	-74-2
Template:	Doning Font			
HERO ID:	5926161			
			EXTRACTION	
Parameter		Data		
Boiling Point		340 C		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and	Guideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storage		NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR		
Standard Deviation Results		Not Reported		
Results Details		Not Reported		
			EVALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other				
	Metric 5:	Databases	Medium	Data is from a publicly available secondary source with references to non-peer reviewed sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quali	ty Determi	nation	Medium	

* Related References: Oxford University Chemical Safety Data

Study Citation: OECD Harmonized	U.S. EPA, (201 Boiling Point	9). Chemistry Dashboard Information for	Dibutyl Phthala	te. 84-74-2
Template:	Doning I onit			
HERO ID:	5926161			
			EXTRACTIO	N
Parameter		Data		
Boiling Point		340 C		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and	Guideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storag	ge, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State,	and Purity	NR; NR; NR; NR		
Standard Deviation Result	S	Not Reported		
Results Details		Not Reported		
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliabi	lity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclu- sion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
Domain 5. Outer	Metric 5:	Databases	High	Data is from a publicly available database that references a peer-reviewed source.
	Metric 6:	Models	N/A	
Overall Quali			N/A High	Rating of this factor is not applicable to this kind of information.

* Related References: NIOSH

Study Citation: OECD Harmonized	U.S. EPA, (201 Boiling Point	9). Chemistry Dashboard Information for	or Dibutyl Phthalate. 84	74-2
Template:	Doning I onit			
HERO ID:	5926161			
			EXTRACTION	
Parameter		Data		
Boiling Point		340 C		
CASRN and Test Material	1	84-74-2; Dibutyl phthalate		
Confidentiality, Type, and		None; Experimental; Not Reported		
Solvent, Reactivity, Storag		NR; NR; NR; NR		
Radiolabel, Source, State,		NR; NR; NR; NR		
Standard Deviation Result	•	Not Reported		
Results Details		Not Reported		
			EVALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliabi	ility			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other				
	Metric 5:	Databases	Medium	Data is from a publicly available secondary source with references to non-peer reviewed sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quali	tv Determi	nation	Medium	

* Related References: Alfa Aesar

Study Citation: OECD Harmonized	U.S. EPA, (201 Boiling Point	9). Chemistry Dashboard Information for	or Dibutyl Phthalate. 84	-74-2
Template:	Doning Fond			
HERO ID:	5926161			
			EXTRACTION	
Parameter		Data		
Boiling Point		340 C		
CASRN and Test Material	1	84-74-2; Dibutyl phthalate		
Confidentiality, Type, and	Guideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storag		NR; NR; NR; NR		
Radiolabel, Source, State,		NR; NR; NR; NR		
Standard Deviation Result		Not Reported		
Results Details		Not Reported		
			EVALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliabi	ility			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other				
	Metric 5:	Databases	Medium	Data is from a publicly available secondary source with references to non-peer reviewed sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quali	ity Determi	nation	Medium	

* Related References: Alfa Aesar

OECD Harmonized Template:	Boiling Point					
HERO ID:	680451					
			EXTRACTIO	N		
Parameter		Data				
Boiling Point		522 K				
CASRN and Test Material		84-74-2; Di-n-butyl phthalate				
Confidentiality, Type, and	Guideline	None; Calculation; Not Reported				
Solvent, Reactivity, Storag	e, and Stability					
Radiolabel, Source, State,	and Purity	NR; Aldrich; NR; 99%				
Standard Deviation Results		Not Reported				
Results Details		Boiling point calculated from experimen Tg = 177.4 K	tally derived relation	buship to measured glass transition temperature Tb = $132 + 2.2Tg$ (where Tg > 45 K).		
			EVALUATIO	N		
Domain		Metric	Rating	Comments		
Domain 1: Substance						
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.		
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance's other physi- cal/chemical properties.		
Domain 2: Test Reliabil	lity					
	Metric 3:	Reliability/Unbiased (Method Objectivity)	High	The methodology for producing the information is designed to answer a specific ques- tion, and the methodology's objective is clear.		
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate.		
Domain 3: Other						
	Metric 5:	Databases	High	Data are from a primary peer-reviewed source.		
	nieure et					

Overall Quality Determination

Metric 6:

Models

High

N/A

Rating of this factor is not applicable to this kind of information.

PUBLIC RELEASE DRAFT May 2025 Density

Study Citation: OECD Harmonized Template:	Cadogan, D., H Density	lowick, C. (2000). Plasticizers.		
HERO ID:	6311430			
			EXTRACTIO	N
Parameter		Data		
Density		1.046 g/cm3		
CASRN and Test Material		NA; dibutyl phthalate		
Confidentiality, Type, and	Guideline	None; not specified; NR		
Solvent, Reactivity, Storage	•	NR; NR; NR; NR		
Radiolabel, Source, State,	and Purity	NR; NR; NR; NR Notes: NR		
Density Type		density		
System		density		
Temperature		20 deg C		
Standard Deviation Results	5	NR		
Results Details		Not Reported		
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclu- sion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	High	Data is from a publicly available, peer-reviewed database that provides references to a peer-reviewed data collection.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quali	ty Determi	nation	High	

Study Citation: OECD Harmonized	DOE, (2016). T Density	able 1: Chemicals of concern and associa	ted chemical inf	formation. PACs.			
Template: HERO ID:	3981013						
	5701015		EXTRACTIO	N			
Parameter		Data					
Density		1.0465 -					
CASRN and Test Material		84-74-2; Dibutyl phthalate					
Confidentiality, Type, and C	Guideline	none; not specified; not specified					
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR					
Radiolabel, Source, State, a	nd Purity	NR; NR; NR; NR Notes: NR					
Density Type			specific gravity (density of a substance divided by the density of water)				
System not specified							
Temperature		20°C					
Standard Deviation Results		not reported					
Results Details		not reported					
			EVALUATIO				
Domain		Metric	Rating	Comments			
Domain 1: Substance							
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.			
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features.			
Domain 2: Test Reliabil	ity						
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.			
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.			
Domain 3: Other							
	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review; specific source not reported.			
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.			
Overall Qualit	v Determi	nation	High				

* Related References: primary reference not specified but include CRC (2009), HSDB (no date), Merck (2006), SAX (2012)

Study Citation:		Committee for Risk Assessment (RAC) sier proposing restrictions on four phthala		Socio-economic Analysis (SEAC): Background document to the Opinion on the
OECD Harmonized	Density			
Template:				
HERO ID:	7325405			
			EXTRACTIO	N
Parameter		Data		
Density		1.045 g/cm3		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and	Guideline	none; not specified; not specified		
Solvent, Reactivity, Storage, and Stability		NR; NR; NR; NR		
Radiolabel, Source, State,	and Purity	NR; NR; liquid; NR		
Density Type		relative density		
System		not specified		
Temperature		20°C		
Standard Deviation Result	s	not specified		
Results Details		not specified		
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features.
Domain 2: Test Reliabi	lity			
	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
		(Method Objectivity)		towards a particular product or outcome.
	M - 4 4 .	Daliability/Analytical Mathad	Low	The englastical model of is configured and there is no indication that a policity of a descent

Overall Quality Determination

Domain 3: Other

Metric 4:

Metric 5:

Metric 6:

Reliability/Analytical Method

Databases

Models

* Related References: Source cited: EU RAR (2004) EU RAR (2004). European Chemicals Bureau (2004). European Union Risk Assessment Report. Dibutyl phthalate, with addendum 2004. Available at: http://esis.jrc.ec.europa.eu/doc/existing-chemicals/risk_assessment/REPORT/dibutylphthalatereport003.pdf

Low

High

N/A

High

used.

use OR includes references to the original sources.

Rating of this factor is not applicable to this kind of information.

The analytical method is unknown and there is no indication that a reliable method was

The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and

Study Citation: OECD Harmonized Template:	ECJRC, (2004) Density	. Summary Risk Assessment Report: Dibutyl	phthalate with add	lendum to the environment section — 2004.
HERO ID:	3661484			
		EX	TRACTION	
Parameter		Data		
Density		1.045 g/cm3		
CASRN and Test Material		84-74-2; dibutyl phthalate		
Confidentiality, Type, and O	Guideline	Not Reported; Not Reported; Not Reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; liquid; >99% (w/w)		
Density Type		relative density		
System		Not Reported		
Temperature		20°C		
Standard Deviation Results		Not Reported		
Results Details		Not Reported		
		EV	ALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Reported data are consistent with the subject chemical substance structural features.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qualit	tv Determi	nation	Medium	

* Related References: specific reference not identified but include: Banerjee and Howard (1984), BASF (corporate data), BUA (1987), Hoyer and Pepperle (1958), Hüls (corporate data); Leyder and Boulanger (1983), Patty (1981)

Study Citation:	Hammer, E., L Science 7(1-2):		essure of di-n-butylphthal	ate, di-n-butylsebacate, lauric acid and myristic acid. Chemical Engineering			
OECD Harmonized	Density						
Template:							
HERO ID:	5577741						
			EXTRACTION				
Parameter		Data					
Density		1.0427 - g/cm3					
CASRN and Test Material	·						
Confidentiality, Type, and	Guideline	No; experimental; NR					
Solvent, Reactivity, Storag		NR; NR; NR NR; NR; Test substance was purified by fractional distillation in a vacuum column					
Radiolabel, Source, State,	•						
Density Type	and Fullty	density	inned by nactional distination				
System		NR					
Temperature		25°C					
Standard Deviation Results	2	NR					
Results Details	\$ 	values reported in literature: 1.043-1	1.048				
D '			EVALUATION	C · · ·			
Domain		Metric	Rating	Comments			
Domain 1: Substance			TT' '				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.			
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.			

Overall Quality Determination			Medium		
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.	
	Metric 5:	Databases	N/A	Rating of this factor is not applicable to this kind of information.	
Domain 3: Other					
				ues.	
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is unknown; but data compares well with reported literature val	
		(Method Objectivity)		towards a particular product or outcome.	
	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased	
Domain 2: Test Relia	bility				
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.	

Study Citation: OECD Harmonized	NIOSH, (1976) Density	. Occupational health guideline for dibuty	lphthalate.					
Template:								
HERO ID:	10182525							
EXTRACTION								
Parameter		Data						
Density		1.05 -						
CASRN and Test Material		NR; Dibutyl phthalate						
Confidentiality, Type, and Guideline		No; not specified; NR						
Solvent, Reactivity, Storage, and Stability		Not Reported; Not Reported; Not Reported; Not Reported						
Radiolabel, Source, State, and Purity		Not Reported; Not Reported; Not Reported; Not Reported						
Density Type		Specific gravity						
System		NR						
Temperature		NR						
Standard Deviation Results		Not Reported						
Results Details		water = 1						
			EVALUATION					
Domain		Metric	Rating	Comments				
Domain 1: Substance								
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.				
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features or other physical/chemical properties or behaviors.				
Domain 2: Test Reliabil	ity							
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.				
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed secondary source.				
Domain 3: Other								
	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.				
	Metric 6:	Models	N/A	The metric is not applicable to the study type.				
Overall Quality Determination Medium								

Study Citation: OECD Harmonized	NIOSH, (1976) Density	Occupational health guideline for dibutyl	phthalate.	
Template:	Density			
HERO ID:	10182525			
			EXTRACTION	
Parameter		Data		
Density		9.6 -		
CASRN and Test Material		NR; Dibutyl phthalate		
		No; not specified; NR		
Solvent, Reactivity, Storage	e, and Stability	Not Reported; Not Reported; Not Reporte	d; Not Reported	
Radiolabel, Source, State, a	-	Not Reported; Not Reported; Not Reporte	-	
Density Type		vapor density	•	
System		NR		
Temperature		NR		
Standard Deviation Results	5	Not Reported		
Results Details		air = 1 at boiling point of dibutylphthalate		
			EVALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features or other physical/chemical properties or behaviors.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed secondary source.
Domain 3: Other				
	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	The metric is not applicable to the study type.
Overall Qualit	tv Determi	nation	Medium	

Study Citation: OECD Harmonized	NIOSH, (2007) Density	NIOSH pocket guide to chemical haze	ards.	
Template:	5			
HERO ID:	192177			
			EXTRACTION	
Parameter		Data		
Density		1.05 - Not reported		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and C	Guideline	None; Experimental; NR		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, and Purity		NR; NR; NR; NR Notes: NR		
Density Type		Specific gravity		
System		Not reported		
Temperature		Not Reported		
Standard Deviation Results		NR		
Results Details		Not Reported		
			EVALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information
Overall Qualit	y Determi	nation	Medium	

Study Citation: OECD Harmonized	NIOSH, (2019) Density	NIOSH pocket guide to chemical hazards	: Dibutyl phthalate.	
Template: HERO ID:	8407729			
			EXTRACTION	
Parameter		Data		
Density		1.05 -		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and Guideline		No; not specified; NR		
Solvent, Reactivity, Storage, and Stability		Not Reported; Not Reported; Not Reported	l; Not Reported	
Radiolabel, Source, State, and Purity		Not Reported; Not Reported; Not Reported	l; Not Reported	
Density Type		Specific gravity		
System		NR		
Temperature		NR		
Standard Deviation Results	6	NR		
Results Details		NR		
			EVALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased	N/A	Rating of this factor is not applicable to this kind of information.
		(Method Objectivity)		
	Metric 4:	Reliability/Analytical Method	N/A	Rating of this factor is not applicable to this kind of information.
Domain 3: Other				
	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

Medium

Study Citation: OECD Harmonized	OECD, (2016). Density	Report On The Proposal For Classification	n And Labelling (C&	L) Of Dibutyl Phthalate.
Template:	-			
HERO ID:	10172655			
			EXTRACTION	
Parameter		Data		
Density		1.049 - g/cm3		
CASRN and Test Material		84-74-2; dibutyl phthalate		
Confidentiality, Type, and Guideline No; not specified; NR		No; not specified; NR		
Solvent, Reactivity, Storage, and Stability Not Reported; Not		Not Reported; Not Reported; Not Reported	d; Not Reported	
Radiolabel, Source, State, and Purity		Not Reported; Not Reported; Not Reported	d; Not Reported	
Density Type	-	Relative density	-	
System		NR		
Temperature		20°C		
Standard Deviation Results		NR		
Results Details		Guideline ISO EN 3675:1998 pycnometer	method reported in EC	HA.
D .			EVALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance		D		
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qualit	ty Determi	nation	Medium	

* Related References: Citing ECHA, 2015. Available at: https://echa.europa.eu/registration-dossier/-/registered-dossier/14862/4/5/?documentUUID=ca897022-1615-4817-972f-dd1c063b364f

Study Citation: OECD Harmonized Template:	Park, C., Sheeh Density	an, R. J. (2000). Phthalic acids and other	benzenepolycart	poxylic acids. :1-45.
HERO ID:	679796			
			EXTRACTIO	N
Parameter		Data		
Density		1.042		
CASRN and Test Material		84-74-2; dibutyl phthalate		
Confidentiality, Type, and	Guideline	None; experimental; Not reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR Notes: NR		
Density Type		density reported as specific gravity		
System		NR		
Temperature		25 deg C		
Standard Deviation Results	5	NR		
Results Details		Not Reported		
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qualit	ty Dotormi	nation	High	

Study Citation: OECD Harmonized	Rumble, J. R. (2 Density	2018). Dibutyl phthalate. :3-16.		
Template:	2 enong			
HERO ID:	5348244			
			EXTRACTIO	N
Parameter		Data		
Density		1.0465 - g/cm3		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and C		None; Experimental; NR		
Solvent, Reactivity, Storage	-	NR; NR; NR; NR		
Radiolabel, Source, State, a	nd Purity	NR; NR; NR; NR Notes: NR		
Density Type		density		
System		NR		
Temperature		20 deg C		
Standard Deviation Results Results Details		NR NR		
Results Details		INK		
			EVALUATIO	
Domain		Metric	Rating	Comments
Domain 1: Substance	N		TT' 1	
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliabili	ty			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	High	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate OR the analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	High	Data is from a peer-reviewed data collection.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Study Citation: OECD Harmonized	WHO, (1997). Density	Environmental health criteria 189. Di-n-t	butyl phthalate. E	NVIRONMENTAL HEALTH CRITERIA(0):GENEVA.
Template: HERO ID:	1333030			
			EXTRACTIO	N
Parameter		Data		•
Density		1.047		
CASRN and Test Material		84-74-2; dibutyl phthalate		
Confidentiality, Type, and	Guideline	no; experimental; not reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; liquid; NR		
Density Type		density		
System		not reported		
Temperature		20°C		
Standard Deviation Results	5	Not Reported		
Results Details		Not Reported		
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qualit	tv Determi	nation	High	

Template: HERO ID:	5926413			
			EXTRACTIO	N
Parameter		Data		
Density		1.0402 - 1.0501 g/cm3		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and Guideline		None; Experimental; Not Reported		
Solvent, Reactivity, Storage, and Stability		NR; NR; NR; NR		
Radiolabel, Source, State, and Purity		NR; NR; NR; NR		
Temperature		20-25°C		
Standard Deviation Result	8	Not Reported		
Results Details		@20-25°C; 27 values were reported in I range or measured at unreported or non-		were reported in the range of 1.0402 to 1.0501 at 20-25°C; 7 values were outside this res.
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance		Representativeness	High	
Domain 1: Substance	Metric 1:	Representativeness	0	Data are measured or estimated for the subject chemical substance.
Domain 1: Substance	Metric 1: Metric 2:	Appropriateness	N/A	Data are measured or estimated for the subject chemical substance. Rating of this factor is not applicable to this kind of information.
	Metric 2:	1	-	5
Domain 1: Substance Domain 2: Test Reliabil	Metric 2:	Appropriateness Reliability/Unbiased	-	Rating of this factor is not applicable to this kind of information. There is no indication that the methodology for producing the information was biased
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
	Metric 2: lity Metric 3:	Appropriateness Reliability/Unbiased (Method Objectivity)	N/A Medium	Rating of this factor is not applicable to this kind of information. There is no indication that the methodology for producing the information was biased towards a particular product or outcome. Analytical method is unknown but is likely to be appropriate based on the data's inclu-
Domain 2: Test Reliabi	Metric 2: lity Metric 3:	Appropriateness Reliability/Unbiased (Method Objectivity)	N/A Medium	Rating of this factor is not applicable to this kind of information. There is no indication that the methodology for producing the information was biased towards a particular product or outcome. Analytical method is unknown but is likely to be appropriate based on the data's inclu-

Overall Quality Determination

* Related References: Data range determined from multiple primary sources in REAXYS.

High

Study Citation: OECD Harmonized	NLM, (2024). I Density	PubChem: Hazardous Substance Data Bar	nk: Dibutyl phtha	alate, 84-74-2.
Template:	Density			
HERO ID:	5926108			
			EXTRACTIO	N
Parameter		Data		
Density		1.0459 - 1.0465 g/cm3		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and	Guideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storag		NR; NR; NR; NR		
Radiolabel, Source, State,		NR; NR; NR; NR		
Temperature	-	20°C		
Standard Deviation Results	5	Not Reported		
Results Details		20°C		
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliabil	lity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclu- sion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	High	Data is from a publicly available, peer-reviewed database that provides references to a peer-reviewed data collection.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quali	ty Dotormi	nation	High	

* Related References: O'Neil, M.J. (Ed.) 2013. The Merck Index - An Encyclopedia of Chemicals, Drugs, and Biologicals. Whitehouse Station, NJ: Merck and Co., Inc. 2006. p. 550

		2013). Dibutyl phthalate. :550.		
OECD Harmonized Template:	Density			
-	5348015			
IIEKO ID.	5548015			
_			EXTRACTIO	N
Parameter		Data		
Density		1.0459 - 1.0465 g/cm3		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and Gu	ideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storage,		NR; NR; NR; NR		
Radiolabel, Source, State, and		NR; NR; NR; NR		
Temperature	2	20°C		
Standard Deviation Results		Not Reported		
Results Details		20°C		
				A.
Domain		Metric	EVALUATIO Rating	Comments
Domain 1: Substance			8	
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	V			
•	, Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
		(Method Objectivity)		towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclu- sion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	High	Data is from a recognized, peer-reviewed data collection.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
			TT • 1	
Overall Quality	y Determi	nation	High	

Study Citation: OECD Harmonized	RSC, (2019). C Density	hemSpider: Dibutyl phthalate.		
Template:	Density			
HERO ID:	5926136			
	0,20100			
Parameter		Data	EXTRACTION	
r al allieter		Data		
Density		1.045 g/cm3		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and	Guideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storage, and Stability		NR; NR; NR; NR		
Radiolabel, Source, State,		NR; NR; NR; NR		
Temperature		Not Reported		
Standard Deviation Results	S	Not Reported		
Results Details		Not Reported		
D .			EVALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance	Matria 1.	Democratic	II: -h	
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliabil	lity			
	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
	Metric 4:	(Method Objectivity) Reliability/Analytical Method	Low	towards a particular product or outcome. The analytical method is unknown and there is no indication that a reliable method was
	Meuric 4.	Kenability/Analytical Method	Low	used.
Domain 3: Other				
Domain 5. Otto	Metric 5:	Databases	Medium	Data is from a publicly available secondary source with references to non-peer reviewed sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quali	tv Determi	nation	Medium	

* Related References: Alfa Aesar

Study Citation:		2018). Dibutyl phthalate. :3-16.		
OECD Harmonized	Density			
Template:				
HERO ID:	5348244			
			EXTRACTIO	N
Parameter		Data		
Density		1.0465 g/cm3		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and Confidentiality, and Confidentiality	Guideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storage		NR; NR; NR; NR		
Radiolabel, Source, State, a		NR; NR; NR; NR		
Temperature	·	20°C		
Standard Deviation Results		Not Reported		
Results Details		20°C		
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
		(Method Objectivity)		towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclu- sion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	High	Data is from a recognized, peer-reviewed data collection.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qualit	v Determi	nation	High	

Study Citation:	NLM, (2024). I	PubChem: Hazardous Substance Data Ba	ank: Dibutyl phth	alate, 84-74-2.
OECD Harmonized	Density			
Template:				
HERO ID:	5926108			
			EXTRACTIO	N
Parameter		Data		
Density		9.58		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and	Guideline	None; Experimental; Not specified		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR		
System		Not reported		
Temperature		Not Reported		
Standard Deviation Results	5	Not Reported		
Results Details		air = 1		
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	High	The methodology for producing the information is designed to answer a specific ques- tion, and the methodology's objective is clear.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclu- sion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	High	Data is from a publicly available, peer-reviewed database that provides references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quali	tv Determi	nation	High	

* Related References: Lewis, R.J. Sr. (Ed.) Sax's Dangerous Properties of Industrial Materials. 12th Edition. Wiley-Interscience, Wiley & Sons, Inc. Hoboken, NJ. 2012. p. V3: 1421.

Data 7.5x10-2 - mm Hg 84-74-2; Dibutyl phthalate none; not specified; not specified NR; NR; NR; NR NR; NR; NR Notes: NR 104°C not reported not reported not reported not reported	EXTRACTIO	N
7.5x10-2 - mm Hg 84-74-2; Dibutyl phthalate none; not specified; not specified NR; NR; NR; NR NR; NR; NR Notes: NR 104°C not reported not reported	EXTRACTIO	N
7.5x10-2 - mm Hg 84-74-2; Dibutyl phthalate none; not specified; not specified NR; NR; NR; NR NR; NR; NR Notes: NR 104°C not reported not reported	EXTRACTIO	N
7.5x10-2 - mm Hg 84-74-2; Dibutyl phthalate none; not specified; not specified NR; NR; NR; NR NR; NR; NR Notes: NR 104°C not reported not reported		
84-74-2; Dibutyl phthalate none; not specified; not specified NR; NR; NR; NR NR; NR; NR Notes: NR 104°C not reported not reported		
84-74-2; Dibutyl phthalate none; not specified; not specified NR; NR; NR; NR NR; NR; NR Notes: NR 104°C not reported not reported		
none; not specified; not specified NR; NR; NR; NR NR; NR; NR; NR Notes: NR 104°C not reported not reported		
NR; NR; NR; NR NR; NR; NR; NR Notes: NR 104°C not reported not reported		
NR; NR; NR; NR Notes: NR 104°C not reported not reported		
104°C not reported not reported		
not reported not reported		
not reported		
*		
not reported		
1		
	EVALUATION	N
Metric	Rating	Comments
Representativeness	High	Data are measured or estimated for the subject chemical substance.
Appropriateness	High	Measured data are consistent with the subject chemical substance structural features.
Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
(Method Objectivity)		towards a particular product or outcome.
Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review; specific source not reported.
	N/A	Rating of this factor is not applicable to this kind of information.
	Models	6

* Related References: primary reference not specified but include CRC (2009), HSDB (no date), Merck (2006), SAX (2012)

Study Citation: OECD Harmonized		. Canadian environmental protection ac	t priority substances list	assessment report: Dibutyl phthalate.
Template:	Vapor Pressure			
HERO ID:	1333071			
	1555071			
_			EXTRACTION	
Parameter		Data		
Vapor Pressure		ca. 0.01 - Pa		
CASRN and Test Material		84-74-2; dibutyl phthalate		
Confidentiality, Type, and	Guideline	no; not specified; Not Reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, and Purity		NR; NR; liquid; NR		
Temperature		25°C		
System		Not Reported		
Standard Deviation Results		Not Reported		
Results Details		Not Reported		
			EVALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features or other physical/chemical properties or behaviors.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qualit	ty Determi	nation	Medium	

* Related References: CMA (Chemicals Manufacturers Association), "Generation of Environmental Fate and Effects Data Base on 14 Phthalate Esters," Summary Report - Environmental Studies - Phase I, Phthalate Esters Program Panel, Washington, DC (1984).

Study Citation: OECD Harmonized	ECETOC, (1985 Vapor Pressure	5). An assessment of the occurrence and e	ffects of dialkyl ortho	p-phthalates in the environment.		
Template:	· · · · · · · · · · · · · · · · · · ·					
HERO ID:	679967					
			EXTRACTION			
Parameter		Data				
Vapor Pressure		3.5E-5 mm Hg				
CASRN and Test Material		Not Reported; Dibutyl phthalate				
Confidentiality, Type, and Guideline		No; experimental; Not Reported				
Solvent, Reactivity, Storage, and Stability		Not Reported; Not Reported; Not Reporte	d; Not Reported			
Radiolabel, Source, State, and Purity		Not Reported; Not Reported; Not Reporte	d; Not Reported			
Temperature		25 deg C				
•		Not Reported				
Standard Deviation Results	5	Not Reported				
Results Details		Not Reported				
			EVALUATION			
Domain		Metric	Rating	Comments		
Domain 1: Substance						
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.		
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features.		
Domain 2: Test Reliabil	ity					
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.		
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.		
Domain 3: Other						
	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.		
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.		
Overall Qualit	ty Determi	nation	Medium			

* Related References: Citing Frissell, W.J.(1956). Volatility of vinyl plastics. Ind. Eng. Chem., 48, 1096.

Study Citation:		Committee for Risk Assessment (RAC sier proposing restrictions on four phthal		Socio-economic Analysis (SEAC): Background document to the Opinion on the			
OECD Harmonized	Vapor Pressure	representations on rour prima					
Template:							
HERO ID:	7325405						
			EXTRACTIO	N			
Parameter		Data					
Vapor Pressure		9.7E-3 Pa					
CASRN and Test Material		84-74-2; Dibutyl phthalate					
Confidentiality, Type, and C	luideline	none; not specified; not specified					
Solvent, Reactivity, Storage	, and Stability	NR; NR; NR; NR					
Radiolabel, Source, State, a	nd Purity	NR; NR; liquid; NR					
Temperature		25°C					
System		not specified					
Standard Deviation Results		±3.3E-3 Pa					
Results Details		not specified					
				NT .			
Domain		Metric	EVALUATIO Rating	Comments			
Domain 1: Substance		Wethe	Katilig	Comments			
Domain 1. Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.			
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance.			
	Metrie 2.	Appropriateness	Ingi	inclusive data are consistent with the subject enclinear substance subcurat reaction.			
Domain 2: Test Reliabili	ty						
	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased			
		(Method Objectivity)		towards a particular product or outcome.			
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.			
Domain 3: Other							
	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.			
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.			
Overall Qualit	v Dotormi	nation	High				

* Related References: Source cited: EU RAR (2004) EU RAR (2004). European Chemicals Bureau (2004). European Union Risk Assessment Report. Dibutyl phthalate, with addendum 2004. Available at: http://esis.jrc.ec.europa.eu/doc/existing-chemicals/risk_assessment/REPORT/dibutylphthalatereport003.pdf

Study Citation: OECD Harmonized	ECJRC, (2004). Vapor Pressure	. Summary Risk Assessment Report: D	bibutyl phthalate with add	dendum to the environment section — 2004.
Template:	vapor riessure			
HERO ID:	3661484			
			EXTRACTION	
Parameter		Data	EATRACTION	
Vapor Pressure		9.7 x 10-5 hPa		
CASRN and Test Material		84-74-2; dibutyl phthalate		
Confidentiality, Type, and	Guideline	no; not specified; Not Reported		
Solvent, Reactivity, Storage		NR; NR; NR; NR		
Radiolabel, Source, State, a		NR; NR; liquid; >99% (w/w)		
Temperature		25°C		
System		Not Reported		
Standard Deviation Results	6	± 3.3 hPa		
Results Details		Not Reported		
			EVALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Reported data are consistent with the subject chemical substance structural features.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qualit	ty Determi	nation	Medium	

* Related References: specific reference not identified but include: Banerjee and Howard (1984), BASF (corporate data), BUA (1987), Hoyer and Pepperle (1958), Hüls (corporate data); Leyder and Boulanger (1983), Patty (1981)

Study Citation: OECD Harmonized Template:	Elsevier, (2019) Vapor Pressure	. Reaxys: physical-chemical property dat	ta for dibutyl pht	halate. CAS Registry Number: 84-74-2			
HERO ID:	5926413						
			EXTRACTIO	N			
Parameter		Data					
Vapor Pressure		1.2E-4 - 2.5E-4 mm Hg					
CASRN and Test Material		84-74-2; Dibutyl phthalate					
Confidentiality, Type, and Guideline		None; Experimental; Not reported					
Solvent, Reactivity, Storage		NR; NR; NR; NR					
Radiolabel, Source, State, and Purity Temperature		NR; NR; NR; NR					
		25°C					
System		Not Reported					
Standard Deviation Results		Not Reported					
Results Details			16 data points were reported; 2 of these values were reported in the range of 1.2E-4 to 2.5E-4 torr at standard temperature; 14 data points were outside the range, measured at non-standard or unreported temperatures.				
			EVALUATIO	N			
Domain		Metric	Rating	Comments			
Domain 1: Substance							
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.			
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.			
Domain 2: Test Reliabil	ity						
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.			
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclu- sion in a peer-reviewed/recognized database or other secondary source.			
Domain 3: Other							
Domain 5. Outer	Metric 5:	Databases	High	Data is from a secondary database with a references to the peer-reviewed original source.			
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.			
Overall Qualit			High				

* Related References: Data range determined from multiple primary sources in REAXYS.

Study Citation: OECD Harmonized Template:	Hamilton, D. J. (1980). Gas chromatographic measurement of volatility of herbicide esters. Journal of Chromatography 195(1):75-83. Vapor Pressure				
HERO ID:	5627459				
		EXTRACTION			
Parameter		Data			
Vapor Pressure		2.03E-5 mm Hg			
CASRN and Test Material		NR; Dibutyl phthalate			
Confidentiality, Type, and Guideline		No; Calculated; A modified theory for extrapolation to 25°C, an adapted method described by D.J. Jensen and E.D. Schallt, J. Agr. Food Chem., 14(1966) 123.			
Solvent, Reactivity, Storag	e, and Stability	NA; NR; NR; NR			
Radiolabel, Source, State,	and Purity	NR; NR; Reagent grade			
Temperature		25 deg C			
System		Hewlett-Packard 5830 with a flame-ionisation detector method used and the retention volumes and vapor pressures for two substances run on a column under the same conditions were determined			
Standard Deviation Results	8	NR			
Results Details		Vapor pressure were based on the retention volumes of dibutyl phthalate (73.59-0.124 L) at a range of temperatures (72-182 deg C) from the equation of Small et al. $logp^{\circ} = 7.065-1666/T-547700/T^{\circ}2$. Compared to other equations which calculated the vapor pressure of dibutyl phthalate as 4.44E-5 (Perry and Weber eq.) and 8.68E-6 mm Hg (Hammer and Lydersen eq.).			

			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are calculated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliabi	ility			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	High	The methodology for producing the information is designed to answer a specific ques- tion, and the methodology's objective is clear.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate (extrapolation of VP using measured physical properties).
Domain 3: Other				
	Metric 5:	Databases	N/A	Rating of this factor is not applicable to this kind of information.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quali	ity Determ	ination	High	

Study Citation: OECD Harmonized	Hamilton, D. J. (1980). Gas chromatographic measurement of volatility of herbicide esters. Journal of Chromatography 195(1):75-83. Vapor Pressure						
Template: HERO ID:	5627459	5627459					
		EXTRACTION					
Parameter		Data					
Vapor Pressure		4.31E-3 mm Hg					
CASRN and Test Material		NR; Dibutyl phthalate					
Confidentiality, Type, and Guideline		No; Calculated; A modified theory for extrapolation to 25°C, an adapted method described by D.J. Jensen and E.D. Schallt, J. Agr. Food Chem., 14(1966) 123.					
Solvent, Reactivity, Storage	e, and Stability	NA; NR; NR					
Radiolabel, Source, State,	and Purity	NR; NR; Reagent grade					
Temperature		72 deg C					
System		Hewlett-Packard 5830 with a flame-ionisation detector method used and the retention volumes and vapor pressures for two substances run on a column under the same conditions were determined					
Standard Deviation Results	s	NR					
Results Details		Vapor pressure were based on the retention volumes of dibutyl phthalate (73.59-0.124 L) at a range of temperatures (72-182 deg C) from the equation of Small et al. $logp^{\circ} = 7.065-1666/T-547700/T^{2}$. Compared to other equations which calculated the vapor pressure of dibutyl phthalate as 4.80E-3 (Perry and Weber eq.) and 2.88E-3 mm Hg (Hammer and Lydersen eq.).					

			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are calculated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Relial	bility			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	High	The methodology for producing the information is designed to answer a specific ques- tion, and the methodology's objective is clear.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate (extrapolation of VP using measured physical properties).
Domain 3: Other				
	Metric 5:	Databases	N/A	Rating of this factor is not applicable to this kind of information.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qual	lity Determi	ination	High	

Study Citation: OECD Harmonized	Hamilton, D. J. (1980). Gas chromatographic measurement of volatility of herbicide esters. Journal of Chromatography 195(1):75-83. Vapor Pressure					
Template: HERO ID:	5627459					
		EXTRACTION				
Parameter		Data				
Vapor Pressure		0.0126 mm Hg				
CASRN and Test Material		NR; Dibutyl phthalate				
Confidentiality, Type, and Guideline		No; Calculated; A modified theory for extrapolation to 25°C, an adapted method described by D.J. Jensen and E.D. Schallt, J. Agr. Food Chem., 14(1966) 123.				
Solvent, Reactivity, Storage	e, and Stability	NA; NR; NR				
Radiolabel, Source, State, a	and Purity	NR; NR; Reagent grade				
Temperature		84 deg C				
System		Hewlett-Packard 5830 with a flame-ionisation detector method used and the retention volumes and vapor pressures for two substances run on a column under the same conditions were determined				
Standard Deviation Results	3	NR				
Results Details		Vapor pressure were based on the retention volumes of dibutyl phthalate (73.59-0.124 L) at a range of temperatures (72-182 deg C) from the equation of Small et al. $\log p^\circ = 7.065-1666/T-547700/T^2$. Compared to other equations which calculated the vapor pressure of dibutyl phthalate as 0.0130 (Perry and Weber eq.) and 9.07E-3 mm Hg (Hammer and Lydersen eq.).				

			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are calculated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Relial	bility			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	High	The methodology for producing the information is designed to answer a specific ques- tion, and the methodology's objective is clear.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate (extrapolation of VP using measured physical properties).
Domain 3: Other				
	Metric 5:	Databases	N/A	Rating of this factor is not applicable to this kind of information.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qual	lity Determ	ination	High	

Study Citation: OECD Harmonized Template:	Hamilton, D. J. (1980). Gas chromatographic measurement of volatility of herbicide esters. Journal of Chromatography 195(1):75-83. Vapor Pressure					
HERO ID:	5627459					
		EXTRACTION				
Parameter		Data				
Vapor Pressure		0.0364 mm Hg				
CASRN and Test Material		NR; Dibutyl phthalate				
Confidentiality, Type, and Guideline		No; Calculated; A modified theory for extrapolation to 25°C, an adapted method described by D.J. Jensen and E.D. Schallt, J. Agr. Food Chem., 14(1966) 123.				
Solvent, Reactivity, Storag		NA; NR; NR				
Radiolabel, Source, State,	and Purity	NR; NR; Reagent grade				
Temperature		97 deg C				
System		Hewlett-Packard 5830 with a flame-ionisation detector method used and the retention volumes and vapor pressures for two substances run on a column under the same conditions were determined				
Standard Deviation Results	8	NR				
Results Details		Vapor pressure were based on the retention volumes of dibutyl phthalate (73.59-0.124 L) at a range of temperatures (72-182 deg C) from the equation of Small et al. $\log p^\circ = 7.065-1666/T-547700/T^2$. Compared to other equations which calculated the vapor pressure of dibutyl phthalate as 0.0357 (Perry and Weber eq.) and 0.0280 mm Hg (Hammer and Lydersen eq.).				

			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance	e			
	Metric 1:	Representativeness	High	Data are calculated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Relia	ability			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	High	The methodology for producing the information is designed to answer a specific ques- tion, and the methodology's objective is clear.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate (extrapolation of VP using measured physical properties).
Domain 3: Other				
	Metric 5:	Databases	N/A	Rating of this factor is not applicable to this kind of information.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qua	lity Determi	ination	High	

Study Citation: OECD Harmonized Template:	Hamilton, D. J. (1980). Gas chromatographic measurement of volatility of herbicide esters. Journal of Chromatography 195(1):75-83. Vapor Pressure					
HERO ID:	5627459					
		EXTRACTION				
Parameter		Data				
Vapor Pressure		0.110 mm Hg				
CASRN and Test Material		NR; Dibutyl phthalate				
Confidentiality, Type, and Guideline		No; Calculated; A modified theory for extrapolation to 25°C, an adapted method described by D.J. Jensen and E.D. Schallt, J. Agr. Food Chem., 14(1966) 123.				
Solvent, Reactivity, Storage	e, and Stability	NA; NR; NR; NR				
Radiolabel, Source, State, a	and Purity	NR; NR; Reagent grade				
Temperature		112 deg C				
System		Hewlett-Packard 5830 with a flame-ionisation detector method used and the retention volumes and vapor pressures for two substances run on a column under the same conditions were determined				
Standard Deviation Results		NR				
Results Details		Vapor pressure were based on the retention volumes of dibutyl phthalate (73.59-0.124 L) at a range of temperatures (72-182 deg C) from the equation of Small et al. $\log p^\circ = 7.065-1666/T-547700/T^2$. Compared to other equations which calculated the vapor pressure of dibutyl phthalate as 0.105 (Perry and Weber eq.) and 0.0903 mm Hg (Hammer and Lydersen eq.).				

			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance	2			
	Metric 1:	Representativeness	High	Data are calculated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Relia	bility			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	High	The methodology for producing the information is designed to answer a specific ques- tion, and the methodology's objective is clear.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate (extrapolation of VP using measured physical properties).
Domain 3: Other				
	Metric 5:	Databases	N/A	Rating of this factor is not applicable to this kind of information.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qua	lity Determi	ination	High	

Study Citation: OECD Harmonized Template:	Hamilton, D. J. (1980). Gas chromatographic measurement of volatility of herbicide esters. Journal of Chromatography 195(1):75-83. Vapor Pressure					
HERO ID:	5627459					
		EXTRACTION				
Parameter		Data				
Vapor Pressure		0.300 mm Hg				
CASRN and Test Material		NR; Dibutyl phthalate				
Confidentiality, Type, and Guideline		No; Calculated; A modified theory for extrapolation to 25°C, an adapted method described by D.J. Jensen and E.D. Schallt, J. Agr. Food Chem., 14(1966) 123.				
Solvent, Reactivity, Storag	e, and Stability	NA; NR; NR				
Radiolabel, Source, State,	and Purity	NR; NR; Reagent grade				
Temperature		127 deg C				
System		Hewlett-Packard 5830 with a flame-ionisation detector method used and the retention volumes and vapor pressures for two substances run on a column under the same conditions were determined				
Standard Deviation Results	8	NR				
Results Details		Vapor pressure were based on the retention volumes of dibutyl phthalate (73.59-0.124 L) at a range of temperatures (72-182 deg C) from the equation of Small et al. $\log p^\circ = 7.065-1666/T-547700/T^2$. Compared to other equations which calculated the vapor pressure of dibutyl phthalate as 0.285 (Perry and Weber eq.) and 0.258 mm Hg (Hammer and Lydersen eq.).				

			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are calculated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Relia	bility			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	High	The methodology for producing the information is designed to answer a specific ques- tion, and the methodology's objective is clear.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate (extrapolation of VP using measured physical properties).
Domain 3: Other				
	Metric 5:	Databases	N/A	Rating of this factor is not applicable to this kind of information.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qual	lity Determ	ination	High	

Study Citation: OECD Harmonized Template:	Hamilton, D. J. (1980). Gas chromatographic measurement of volatility of herbicide esters. Journal of Chromatography 195(1):75-83. Vapor Pressure					
HERO ID:	5627459					
		EXTRACTION				
Parameter		Data				
Vapor Pressure		0.832 mm Hg				
CASRN and Test Material		NR; Dibutyl phthalate				
Confidentiality, Type, and Guideline		No; Calculated; A modified theory for extrapolation to 25°C, an adapted method described by D.J. Jensen and E.D. Schallt, J. Agr. Food Chem., 14(1966) 123.				
Solvent, Reactivity, Storage	e, and Stability	NA; NR; NR				
Radiolabel, Source, State, a	and Purity	NR; NR; Reagent grade				
Temperature		144 deg C				
System		Hewlett-Packard 5830 with a flame-ionisation detector method used and the retention volumes and vapor pressures for two substances run on a column under the same conditions were determined				
Standard Deviation Results	8	NR				
Results Details		This value was within the region of measurements (not extrapolated). Vapor pressure were based on the retention volumes of dibutyl phthalate (73.59-0.124 L) at a range of temperatures (72-182 deg C) from the equation of Small et al. $logp^\circ = 7.065-1666/T-547700/T^2$. Compared to other equations which calculated the vapor pressure of dibutyl phthalate as 0.810 (Perry and Weber eq.) and 0.748 mm Hg (Hammer and Lydersen eq.).				

			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance	e			
	Metric 1:	Representativeness	High	Data are calculated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Relia	ability			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	High	The methodology for producing the information is designed to answer a specific ques- tion, and the methodology's objective is clear.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate (extrapolation of VP using measured physical properties).
Domain 3: Other				
	Metric 5:	Databases	N/A	Rating of this factor is not applicable to this kind of information.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qua	lity Determi	ination	High	

Study Citation: OECD Harmonized Template:	Hamilton, D. J. (1980). Gas chromatographic measurement of volatility of herbicide esters. Journal of Chromatography 195(1):75-83. Vapor Pressure					
HERO ID:	5627459					
		EXTRACTION				
Parameter		Data				
Vapor Pressure		5.726 mm Hg				
CASRN and Test Material		NR; Dibutyl phthalate				
Confidentiality, Type, and Guideline		No; Calculated; A modified theory for extrapolation to 25°C, an adapted method described by D.J. Jensen and E.D. Schallt, J. Agr. Food Chem., 14(1966) 123.				
Solvent, Reactivity, Storag	e, and Stability	NA; NR; NR				
Radiolabel, Source, State,	and Purity	NR; NR; Reagent grade				
Temperature		182 deg C				
System		Hewlett-Packard 5830 with a flame-ionisation detector method used and the retention volumes and vapor pressures for two substances run on a column under the same conditions were determined				
Standard Deviation Results		NR				
Results Details		This value was within the region of measurements (not extrapolated). Vapor pressure were based on the retention volumes of dibutyl phthalate (73.59-0.124 L) at a range of temperatures (72-182 deg C) from the equation of Small et al. $logp^{\circ} = 7.065-1666/T-547700/T^{2}$. Compared to other equations which calculated the vapor pressure of dibutyl phthalate as 6.306 (Perry and Weber eq.) and 5.485 mm Hg (Hammer and Lydersen eq.).				

			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance	2			
	Metric 1:	Representativeness	High	Data are calculated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Relia	bility			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	High	The methodology for producing the information is designed to answer a specific ques- tion, and the methodology's objective is clear.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate (extrapolation of VP using measured physical properties).
Domain 3: Other				
	Metric 5:	Databases	N/A	Rating of this factor is not applicable to this kind of information.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qua	lity Determi	ination	High	

Study Citation: OECD Harmonized	Hamilton, D. J. (1980). Gas chromatographic measurement of volatility of herbicide esters. Journal of Chromatography 195(1):75-83. Vapor Pressure					
Template:	vapor i ressure					
HERO ID:	5627459					
		EXTRACTION				
Parameter		Data				
Vapor Pressure		2.191 mm Hg				
CASRN and Test Material		NR; Dibutyl phthalate				
Confidentiality, Type, and Guideline		No; Calculated; A modified theory for extrapolation to 25°C, an adapted method described by D.J. Jensen and E.D. Schallt, J. Agr. Food Chem., 14(1966) 123.				
Solvent, Reactivity, Storage	e, and Stability	NA; NR; NR; NR				
Radiolabel, Source, State, a	and Purity	NR; NR; Reagent grade				
Temperature		162 deg C				
System		Hewlett-Packard 5830 with a flame-ionisation detector method used and the retention volumes and vapor pressures for two substances run on a column under the same conditions were determined NR				
Standard Deviation Results Results Details		This value was within the region of measurements (not extrapolated). Vapor pressure were based on the retention volumes of dibutyl phthalate (73.59-0.124 L) at a range of temperatures (72-182 deg C) from the equation of Small et al. $logp^\circ = 7.065-1666/T-547700/T^2$. Compared to other equations which calculated the vapor pressure of dibutyl phthalate as 2.239 (Perry and Weber eq.) and 2.041 mm Hg (Hammer and Lydersen eq.).				
		EVALUATION				

			EVALUATIO	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are calculated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliat	bility			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	High	The methodology for producing the information is designed to answer a specific ques- tion, and the methodology's objective is clear.
	Metric 4:	Reliability/Analytical Method	N/A	Rating of this factor is not applicable to this kind of information.
Domain 3: Other				
	Metric 5:	Databases	N/A	Rating of this factor is not applicable to this kind of information.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Study Citation: Hamilton, D. J. (1980). Gas chromatographic measurement of volatility of herbicide esters. Journal of Chromatography 195(1):75-83.				
OECD Harmonized Vapor Pressure Template:						
HERO ID:	5627459					
		EXTRACTION				
Parameter		Data				
Van an Dragauna		Not Demosted				
Vapor Pressure		Not Reported				
CASRN and Test Material		NR; Dibutyl phthalate				
Confidentiality, Type, and	Guideline	No; Calculated; A modified theory for extrapolation to 25°C, an adapted method described by D.J. Jensen and E.D. Schallt, J. Agr. Food Chem., 14(1966) 123.				
Solvent, Reactivity, Storag	e, and Stability	NA; NR; NR				
Radiolabel, Source, State,	and Purity	NR; NR; Reagent grade				
Temperature		25 deg C				
System		Hewlett-Packard 5830 with a flame-ionisation detector method used and the retention volumes and vapor pressures for two substances run on a column under the same conditions were determined				
Standard Deviation Results	8	NR				
Results Details		Latent heat of vaporization at 25 deg C= 24.4 kcal/mol; based on the equation $L = R$ (3836+2.522E6 T-1). Also reported were $L = 21.0$, 19.4, 18.2 kcal/mol at 100, 150 and 200 deg C, respectively.				

Metric Representativeness Appropriateness Reliability/Unbiased (Method Objectivity)	Rating High High High	Comments Data are calculated for the subject chemical substance. Rating of this factor is not applicable to this kind of information. The methodology for producing the information is designed to answer a specific ques-
Appropriateness Reliability/Unbiased	High	Rating of this factor is not applicable to this kind of information.
Appropriateness Reliability/Unbiased	High	Rating of this factor is not applicable to this kind of information.
Reliability/Unbiased		The methodology for producing the information is designed to answer a specific ques-
•	High	
•	High	
		tion, and the methodology's objective is clear.
Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate (extrapolation of VP using measured physical properties).
Databases	N/A	Rating of this factor is not applicable to this kind of information.
Models	N/A	Rating of this factor is not applicable to this kind of information.
r		Models N/A

Study Citation:	dersen, A. L. (1957). The vapour pressure of di-n-butylphthalate, di-n-butylsebacate, lauric acid and myristic acid. Chemical Engineering 66-72.			
OECD Harmonized Vapor Pressure				
Template:				
HERO ID: 5577741				
		EXTRACTION		
Parameter		Data		
Vapor Pressure		0.240 - 13.04 mm Hg		
CASRN and Test Material		NR; di-n-butyl phthalate		
Confidentiality, Type, and Guideline		No; experimental; vapour-liquid equilibria measurements		
Solvent, Reactivity, Storage, and Stability NA; NR; NA; NA		NA; NR; NA; NA		
Radiolabel, Source, State, and Purity		NA; NR; NR; Test substance was purified by fractional distillation in a vacuum column		
Temperature		125.70 and 202.05 deg C for 0.240 and 13.27 mm Hg, respectively.		
System		low pressure vapour-liquid equilibrium still with McLeod gauge		
Standard Deviation Result	s	NR		
Results Details enthalpy of vapo		enthalpy of vaporization = 75.2 to 65.7 kcal/kg at 125.7 and 202.05 deg C, respectivelyadditional vapor pressure data at intermediate temperatures listed		

			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information (vapor pressure mea- surements at elevated temperatures).
Domain 2: Test Reliabi	lity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	High	The methodology for producing the information is designed to answer a specific ques- tion, and the methodology's objective is clear.
	Metric 4:	Reliability/Analytical Method	High	Data are obtained by accepted standard analytical methods, including, but not limited to OECD guidelines for physical-chemical properties or other developed standard.
Domain 3: Other				
	Metric 5:	Databases	N/A	Rating of this factor is not applicable to this kind of information.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Study Citation:		H., Banerjee, S., Robillard, K. H. (1985). Measurement of water solubilities octanol-water partition coefficients and vapor pressures of l phthalate esters. Environmental Toxicology and Chemistry 4(5):653-662.				
OECD Harmonized	Vapor Pressure		5			
Template:						
HERO ID:	679985					
			EXTRACTIO	DN		
Parameter		Data				
Vapor Pressure		9.7E-3 Pa				
CASRN and Test Material	1	84-74-2; Dibutyl phthalate				
Confidentiality, Type, and	Guideline	None; Experimental; Not reported				
Solvent, Reactivity, Storag	ge, and Stability	NR; NR; If more than one manufacturer produced the individual PAE, the PAE product provided to us was an equal-proportion blend.				
Radiolabel, Source, State,	and Purity	NR; Provided to Chemical Manufacturers' Association by U.S. manufacturers.; NR; Each sample contained less than 1 % of non-PAE material, as determined by another laboratory. Notes: single isomer				
Temperature		25°C				
System		Measured by the gas saturation method: U.S. Environmental Protection Agency. 1980. Environmental test standards: Proposed rules. Vapor				
Standard Deviation Results		pressure. Fed. Reg. 45:77345-77350. 3.3E-3				
Standard Deviation Results						
Results Details		Not Reported				
			EVALUATIO	N		
Domain		Metric	Rating	Comments		
Domain 1: Substance						
	Metric 1:	Representativeness	High	Data are measured for the subject chemical substance.		
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features		
				(e.g., presence of certain functional groups) and other physical/chemical properties.		
Domain 2: Test Reliabi	ility					
	Metric 3:	Reliability/Unbiased	High	Peer-reviewed journal article with results compared to other literature values.		
		(Method Objectivity)	e	5 1		
	Metric 4:	Reliability/Analytical Method	High	Standard method used.		
Domain 3: Other						
	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and		
				use OR includes references to the original sources.		

Overall Quality Determination

Metric 6:

Models

N/A

High

Rating of this factor is not applicable to this kind of information.

Study Citation:	-	an, J., Karam, R., Goutaudier, C., Mokbel, I., Saliba, C., Saab, J. (2016). Aqueous solubility, vapor pressure and octanol-water partition to phthalate isomers dibutyl phthalate and di-isobutyl phthalate contaminants of recycled food packages. Fluid Phase Equilibria 427:362-				
OECD Harmonized Template:	370. Vapor Pressure	1 51				
HERO ID:	3475635					
			EXTRACTION			
Parameter		Data				
Vapor Pressure		0.0047 Pa				
CASRN and Test Material		84-74-2; Dibutyl phthalate				
Confidentiality, Type, and	Guideline	None; Experimental; Not reported				
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR				
Radiolabel, Source, State, a	and Purity	NR; Sigma-Aldrich; NR; 99	% Notes: Used without further purification			
Temperature		298.15 K				
*			turation method between 313.15 and 423.15K, u	sing the Clausius-Clapeyron equation to fit to standard temperature		
Standard Deviation Results		Not Reported				
Results Details		Value is extrapolated from v	apor pressures measured between 313.15 K and 4	23.15 K.		
			EVALUATION			
Domain		Metric	Rating	Comments		

Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features (e.g., presence of certain functional groups).
Domain 2: Test Relia	oility			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	High	The methodology for producing the information is designed to answer a specific ques- tion, and the methodology's objective is clear.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate.
Domain 3: Other				
	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

3(2):168-173. apor Pressure 07140 eline d Stability Purity	temperature (298K); Log $S(A) = -0.2324$ Not Reported	w: S(A) = P(liqu - 0.3215 (Lu) (R) = 0.9461; sta	
eline 1 Stability	5.16X10-3 Pa 84-74-2; di-n-butyl phthalate none; QSAR; Quantitative Structure-Prop NR; NR; NR; NR NR; NR; NR Notes: DBP Not Reported Predictive model developed using gas la temperature (298K); Log S(A) = -0.2324 Not Reported Log S(A): n = 15; correlation coefficient	erty relationship w: S(A) = P(liqu - 0.3215 (Lu) (R) = 0.9461; sta	model for estimation of solubility in air id substance)/RT where R= gas constant (8.314 Pa m-3 mol-1 K-1) and T = absolute
eline 1 Stability	5.16X10-3 Pa 84-74-2; di-n-butyl phthalate none; QSAR; Quantitative Structure-Prop NR; NR; NR; NR NR; NR; NR Notes: DBP Not Reported Predictive model developed using gas la temperature (298K); Log S(A) = -0.2324 Not Reported Log S(A): n = 15; correlation coefficient	erty relationship w: S(A) = P(liqu - 0.3215 (Lu) (R) = 0.9461; sta	model for estimation of solubility in air id substance)/RT where R= gas constant (8.314 Pa m-3 mol-1 K-1) and T = absolute
d Stability	5.16X10-3 Pa 84-74-2; di-n-butyl phthalate none; QSAR; Quantitative Structure-Prop NR; NR; NR; NR NR; NR; NR Notes: DBP Not Reported Predictive model developed using gas la temperature (298K); Log S(A) = -0.2324 Not Reported Log S(A): n = 15; correlation coefficient	erty relationship w: S(A) = P(liqu - 0.3215 (Lu) (R) = 0.9461; sta	model for estimation of solubility in air id substance)/RT where R= gas constant (8.314 Pa m-3 mol-1 K-1) and T = absolute
d Stability	5.16X10-3 Pa 84-74-2; di-n-butyl phthalate none; QSAR; Quantitative Structure-Prop NR; NR; NR; NR NR; NR; NR Notes: DBP Not Reported Predictive model developed using gas la temperature (298K); Log S(A) = -0.2324 Not Reported Log S(A): n = 15; correlation coefficient	w: S(A) = P(liqu - 0.3215 (Lu) (R) = 0.9461; sta	id substance)/RT where R= gas constant (8.314 Pa m-3 mol-1 K-1) and T = absolute
d Stability	 84-74-2; di-n-butyl phthalate none; QSAR; Quantitative Structure-Prop NR; NR; NR; NR NR; NR; NR; NR Notes: DBP Not Reported Predictive model developed using gas la temperature (298K); Log S(A) = -0.2324 Not Reported Log S(A): n = 15; correlation coefficient 	w: S(A) = P(liqu - 0.3215 (Lu) (R) = 0.9461; sta	id substance)/RT where R= gas constant (8.314 Pa m-3 mol-1 K-1) and T = absolute
d Stability	 84-74-2; di-n-butyl phthalate none; QSAR; Quantitative Structure-Prop NR; NR; NR; NR NR; NR; NR; NR Notes: DBP Not Reported Predictive model developed using gas la temperature (298K); Log S(A) = -0.2324 Not Reported Log S(A): n = 15; correlation coefficient 	w: S(A) = P(liqu - 0.3215 (Lu) (R) = 0.9461; sta	id substance)/RT where R= gas constant (8.314 Pa m-3 mol-1 K-1) and T = absolute
d Stability	none; QSAR; Quantitative Structure-Prop NR; NR; NR; NR NR; NR; NR; NR Notes: DBP Not Reported Predictive model developed using gas la temperature (298K); Log S(A) = -0.2324 Not Reported Log S(A): n = 15; correlation coefficient	w: S(A) = P(liqu - 0.3215 (Lu) (R) = 0.9461; sta	id substance)/RT where R= gas constant (8.314 Pa m-3 mol-1 K-1) and T = absolute
d Stability	NR; NR; NR; NR NR; NR; NR Notes: DBP Not Reported Predictive model developed using gas la temperature (298K); Log S(A) = -0.2324 Not Reported Log S(A): n = 15; correlation coefficient	w: S(A) = P(liqu - 0.3215 (Lu) (R) = 0.9461; sta	id substance)/RT where R= gas constant (8.314 Pa m-3 mol-1 K-1) and T = absolute
	Not Reported Predictive model developed using gas la temperature (298K); Log S(A) = -0.2324 Not Reported Log S(A): n = 15; correlation coefficient	- 0.3215 (Lu) (R) = 0.9461; sta	
	Predictive model developed using gas la temperature (298K); Log S(A) = -0.2324 Not Reported Log S(A): n = 15; correlation coefficient	- 0.3215 (Lu) (R) = 0.9461; sta	
	Predictive model developed using gas la temperature (298K); Log S(A) = -0.2324 Not Reported Log S(A): n = 15; correlation coefficient	- 0.3215 (Lu) (R) = 0.9461; sta	
	Not Reported Log S(A): n = 15; correlation coefficient	(R) = 0.9461; sta	and ard error (SE) = 0.27 ; leave-one-out cross validation correlation coefficient (Rsv) =
	Log $S(A)$: n = 15; correlation coefficient		and ard error (SE) = 0.27 ; leave-one-out cross validation correlation coefficient (Rsv) =
			andard error (SE) = 0.27 ; leave-one-out cross validation correlation coefficient (Rsv) =
		EVALUATIO	N .
	Metric	Rating	Comments
etric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
etric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
etric 3:	Reliability/Unbiased	N/A	Rating of this factor is not applicable to this kind of information.
	(Method Objectivity)		
etric 4:	Reliability/Analytical Method	N/A	Rating of this factor is not applicable to this kind of information.
etric 5:	Databases	N/A	Rating of this factor is not applicable to this kind of information.
etric 6:	Models	High	The model had a defined, unambiguous endpoint AND the model performance was
		-	known and $r2 > 0.7$, $q2 > 0.5$, and $SE < 0.3$ (ECHA, 2016).
	etric 2: etric 3: etric 4: etric 5: etric 6:	etric 1: Representativeness etric 2: Appropriateness etric 3: Reliability/Unbiased (Method Objectivity) etric 4: Reliability/Analytical Method etric 5: Databases	etric 1: Representativeness High httric 2: Appropriateness N/A etric 3: Reliability/Unbiased N/A (Method Objectivity) etric 4: Reliability/Analytical Method N/A etric 5: Databases N/A etric 6: Models High

Study Citation: OECD Harmonized	NIOSH, (1976). Vapor Pressure	Occupational health guideline for dibu	itylphthalate.	
Template:				
HERO ID:	10182525			
			EXTRACTIO	N
Parameter		Data		
Vapor Pressure		< 0.01 - mm Hg		
CASRN and Test Material		NR; Dibutyl phthalate		
Confidentiality, Type, and C	Guideline	No; not specified; NR		
Solvent, Reactivity, Storage		Not Reported; Not Reported; Not Repo	orted; Not Reported	
Radiolabel, Source, State, a	and Purity	Not Reported; Not Reported; Not Repo	orted; Not Reported	
Temperature	-	20°C	-	
System		NR		
Standard Deviation Results		NR		
Results Details		Not Reported		
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features or other physical/chemical properties or behaviors.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Low	It is unclear if this is a cut-off value or a measured/estimated value.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other				
	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qualit	v Determi	nation	Low	

Study Citation:		NIOSH pocket guide to chemical haza	ards.	
OECD Harmonized	Vapor Pressure			
Template:	102177			
HERO ID:	192177			
			EXTRACTIO	N
Parameter		Data		
Vapor Pressure		0.00007 - mm Hg		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and	Guideline	None; Experimental; Not reported		
Solvent, Reactivity, Storage		NR; NR; NR		
Radiolabel, Source, State, a		NR; NR; NR; NR Notes: NR		
Temperature	-	NR		
System		NR		
Standard Deviation Results		NR		
Results Details		Not Reported		
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance			U	
	Metric 1:	Representativeness	High	Data are measured for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qualit	y Determin	ation	High	

Study Citation: OECD Harmonized	NIOSH, (2019) Vapor Pressure	. NIOSH pocket guide to chemical hazards	s: Dibutyl phthalate.	
Template:	vapor i ressure			
HERO ID:	8407729			
			EXTRACTION	
Parameter		Data		
Vapor Pressure		0.00007 - mm Hg		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and		No; not specified; NR		
Solvent, Reactivity, Storag	-	Not Reported; Not Reported; Not Reported		
Radiolabel, Source, State, and Purity		Not Reported; Not Reported; Not Reported	d; Not Reported	
I		NR		
System NR				
Standard Deviation Results Not Reported		*		
Results Details		Not Reported		
			EVALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance			TT' 1	
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliabil	lity			
	Metric 3:	Reliability/Unbiased	N/A	Rating of this factor is not applicable to this kind of information.
		(Method Objectivity)		
	Metric 4:	Reliability/Analytical Method	N/A	Rating of this factor is not applicable to this kind of information.
Domain 3: Other				
	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quali	tv Determi	nation	Medium	

Study Citation: OECD Harmonized	NIST, (2022). N Vapor Pressure	NIST Chemistry WebBook: Dibutyl phtha	late (84-74-2), S	Standard Reference Database No. 69.		
Template: HERO ID:	10225264					
			EXTRACTIO	N		
Parameter		Data				
Vapor Pressure		Not Reported				
CASRN and Test Material		84-74-2; Dibutyl phthalate				
Confidentiality, Type, and	Guideline	No; Not specified; Vapor pressure metho	d			
Solvent, Reactivity, Storage		Not Reported; Not Reported; Not Report	· •			
Radiolabel, Source, State, a	and Purity	Not Reported; Not Reported; Not Report	ed; Not Reported			
Temperature		300 K				
System Not Reported						
Standard Deviation Results	8	± 4.6 Enthalpy of vaporization = $\Delta vapH^\circ = 91.7$ kJ/mol. Based on data from 288 313. K.				
Results Details		Enthalpy of vaporization = $\Delta vapH^\circ = 91$.	/ kJ/mol. Based o	n data from 288 313. K.		
			EVALUATIO			
Domain		Metric	Rating	Comments		
Domain 1: Substance						
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.		
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.		
Domain 2: Test Reliabil	lity					
	Metric 3:	Reliability/Unbiased (Method Objectivity)	N/A	Rating of this factor is not applicable to this kind of information.		
	Metric 4:	Reliability/Analytical Method	N/A	Rating of this factor is not applicable to this kind of information.		
Domain 3: Other						
	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.		
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.		

* Related References: Citing Birks, J.; Bradley, R.S., The rate of evaporation of droplets. II. The influence of changes of temperature and of the surrounding gas on the rate of evaporation of drops of di-n-butyl phthalate, Proc. Roy. Soc. London A, 1949, 198, 226-239.

Study Citation: OECD Harmonized	NIST, (2022). N Vapor Pressure	IIST Chemistry WebBook: Dibutyl phtha	late (84-74-2), S	standard Reference Database No. 69.			
Template: HERO ID:	10225264						
			EXTRACTIO	N			
Parameter		Data					
Vapor Pressure		Not Reported					
CASRN and Test Material		84-74-2; Dibutyl phthalate					
Confidentiality, Type, and Guideline		No; Not specified; NR					
Solvent, Reactivity, Storage, and Stability		Not Reported; Not Reported; Not Reported	ed; Not Reported				
Radiolabel, Source, State, and Purity		Not Reported; Not Reported; Not Reported	ed; Not Reported				
Temperature		462 K					
System		Not Reported					
Standard Deviation Results		NR					
Results Details		Enthalpy of vaporization = $\Delta vapH^\circ = 80$.	4 kJ/mol				
			EVALUATIO				
Domain		Metric	Rating	Comments			
Domain 1: Substance	N						
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.			
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.			
Domain 2: Test Reliabili	ity						
	Metric 3:	Reliability/Unbiased	N/A	Rating of this factor is not applicable to this kind of information.			
		(Method Objectivity)					
	Metric 4:	Reliability/Analytical Method	N/A	Rating of this factor is not applicable to this kind of information.			
Domain 3: Other							
	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.			
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.			
Overall Qualit	v Determi	nation	High				

* Related References: Citing Katayama, Hirotake, Vapor pressures of diethyl, diisopropyl, and dibutyl phthalates at reduced pressures., Bull. Chem. Soc. Jpn., 1988, 61, 9, 3326-3328, https://doi.org/10.1246/bcsj.61.3326 .

Study Citation: OECD Harmonized	NIST, (2022). N Vapor Pressure	IST Chemistry WebBook: Dibutyl phtha	late (84-74-2), S	Standard Reference Database No. 69.	
Template:	vapor r lessure				
HERO ID:	10225264				
			EXTRACTIO	N	
Parameter		Data	EATRACIIO	1	
i di dificter		Dum			
Vapor Pressure		Not Reported			
CASRN and Test Material		84-74-2; Dibutyl phthalate			
Confidentiality, Type, and Guideline No; Calculation; Calculated from the va			or pressure data re	eported by the method of least squares	
Solvent, Reactivity, Storage, and Stability		Not Reported; Not Reported; Not Report	-		
Radiolabel, Source, State, a		Not Reported; Not Reported; Not Report	-		
Temperature	329 K				
System		Not Reported			
Standard Deviation Results		NR			
Results Details		Enthalpy of vaporization = $\Delta vapH^\circ$ = 94.	0 kJ/mol. Based o	n data from 314 - 469 K.	
			EVALUATIO	N	
Domain		Metric	Rating	Comments	
Domain 1: Substance					
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.	
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.	
Domain 2: Test Reliabili	ty				
	Metric 3:	Reliability/Unbiased	N/A	Rating of this factor is not applicable to this kind of information.	
		(Method Objectivity)			
	Metric 4:	Reliability/Analytical Method	N/A	Rating of this factor is not applicable to this kind of information.	
Domain 3: Other					
	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.	
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.	
Overall Qualit	v Dotomi	action	High		

* Related References: Citing Stephenson, Richard M.; Malanowski, Stanislaw, Handbook of the Thermodynamics of Organic Compounds, 1987, https://doi.org/10.1007/978-94-009-3173-2.

Study Citation: OECD Harmonized	NIST, (2022). N Vapor Pressure	IST Chemistry WebBook: Dibutyl phtha	late (84-74-2), S	Standard Reference Database No. 69.
Template:	vapor riessure			
HERO ID:	10225264			
	10220201			NT .
Parameter		Data	EXTRACTIO	N N
		Data		
Vapor Pressure		Not Reported		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and Guideline No; Calculation; Calculated from the va			or pressure data re	eported by the method of least squares
Solvent, Reactivity, Storage, and Stability Not		Not Reported; Not Reported; Not Report		
Radiolabel, Source, State, and Purity		Not Reported; Not Reported; Not Report		
Temperature 483 K				
System	Not Reported			
Standard Deviation Results NR				
Results Details		Enthalpy of vaporization = $\Delta vapH^{\circ}$ = 76.	1 kJ/mol. Based o	n data from 468 - 605 K.
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliabili	tv			
	Metric 3:	Reliability/Unbiased	N/A	Rating of this factor is not applicable to this kind of information.
		(Method Objectivity)		
	Metric 4:	Reliability/Analytical Method	N/A	Rating of this factor is not applicable to this kind of information.
Domain 3: Other				
	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qualit			High	

* Related References: Citing Stephenson, Richard M.; Malanowski, Stanislaw, Handbook of the Thermodynamics of Organic Compounds, 1987, https://doi.org/10.1007/978-94-009-3173-2.

Study Citation: OECD Harmonized	NLM, (2024). P Vapor Pressure	ubChem: Hazardous Substance Data Ba	ank: Dibutyl phth	alate, 84-74-2.
Template:	vapor i ressure			
HERO ID:	5926108			
			EXTRACTIO	N
Parameter		Data		
Vapor Pressure		2.01E-5 mm Hg		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and		None; Experimental; Not reported		
Solvent, Reactivity, Storage		NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR		
Temperature		25°C		
System		Not Reported		
Standard Deviation Results Results Details		Not Reported Not Reported		
Results Deans		Not Reported		
D .			EVALUATIO	
Domain Domain 1: Substance		Metric	Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
	Meule 2.	rippiopriateness	Ingn	neusineu aut ale consistent with the subject encinear s physical encinear properties.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
		(Method Objectivity)		towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclu- sion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	High	Data is from a publicly available, peer-reviewed database that provides references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quali	tv Determi	nation	High	

* Related References: Donovan, S.F. 1996. J Chromatogr A. 749: 123-129.

Study Citation:		nemSpider: Dibutyl phthalate.		
OECD Harmonized Template:	Vapor Pressure			
HERO ID:	5926136			
HERO ID:	3920130			
			EXTRACTIO	N
Parameter		Data		
Vapor Pressure		0.0001 mm Hg		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and	Guideline	None; Experimental; Not reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR		
Temperature		Not Reported		
System		Not Reported		
Standard Deviation Results	1	Not Reported		
Results Details		Not Reported		
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclu- sion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	Low	Vapor pressure value is no longer the most up to date value contained in the NIOSH reference cited.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quali	tv Determiı	nation	Low	

* Related References: NIOSH

Study Citation: OECD Harmonized	U.S. EPA, (2019 Vapor Pressure	9). Chemistry Dashboard Information for	r Dibutyl Phthala	te. 84-74-2
Template:	vapor riessure			
HERO ID:	5926161			
	5720101			A 7
Parameter		Data	EXTRACTIO	N
rarameter		Data		
Vapor Pressure		2.01E-5 mm Hg		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and	Guideline	None; Experimental; Not reported		
Solvent, Reactivity, Storage		NR; NR; NR; NR		
Radiolabel, Source, State, a		NR; NR; NR; NR		
Temperature		Not Reported		
System		Not Reported		
Standard Deviation Results	8	Not Reported		
Results Details		Not Reported		
			EVALUATIO	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliabil	lity			
	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
		(Method Objectivity)		towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclu- sion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	High	Data is from a publicly available database that provides references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
				~ AA
Overall Quali	tv Determi	nation	High	

* Related References: PhysProp. Donovan, SF 1996

Study Citation: OECD Harmonized	EC/HC, (1994). logKow	. Canadian environmental protection act	t priority substances list	assessment report: Dibutyl phthalate.
Template: HERO ID:	1333071			
			EXTRACTION	
Parameter		Data		
log k _{ow}		4.31 - 4.79		
CASRN and Test Material		84-74-2; dibutyl phthalate		
Confidentiality, Type, and G	Guideline	no; not specified; Not Reported		
Solvent, Reactivity, Storage		NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; liquid; NR		
Temperature		Not Reported		
System		Not Reported		
pH		Not Reported		
Results Details Method		Not Reported		
Standard Deviation Results		Not Reported		
Results Details		Not Reported		
			EVALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features or other physical/chemical properties or behaviors.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qualit	v Determi	nation	Medium	

* Related References: Montgomery, J.H. and L.M. Welkom, Groundwater Chemicals Desk Reference, Lewis Publishers Inc., Chelsea, MI (1990).

Study Citation: OECD Harmonized	EC/HC, (2017) logKow	. Draft screening assessment: Phthalate s	substance groupin	g.
Template:	logitow			
HERO ID:	5353181			
			EXTRACTIO	N
Parameter		Data		
log k _{ow}		4.46		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and	Guideline	none; experimental; not specified		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	-	NR; NR; NR; NR		
Temperature		not specified		
System		not specified		
pH		not specified		
Results Details Method		not specified		
Standard Deviation Results	3	not specified		
Results Details		not specified		
			EVALUATIO	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other				
	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qualit	ty Determi	nation	High	

* Related References: Source cited: ECHA c2007-2015b

Study Citation:		Committee for Risk Assessment (RA sier proposing restrictions on four phthat		Socio-economic Analysis (SEAC): Background document to the Opinion on the
OECD Harmonized	logKow	ster proposing restrictions on rour plittle	alates. Alliexes.	
Template: HERO ID:	7325405			
			EXTRACTIO	N
Parameter		Data		
log k _{ow}		4.57		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and C		none; not specified; not specified		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	nd Purity	NR; NR; liquid; NR		
Temperature		not specified		
System		not specified		
pН		not specified		
Results Details Method		not specified		
Standard Deviation Results		not specified		
Results Details		not specified		
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features.
Domain 2: Test Reliabili	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other				
Johan J. Ouer	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qualit	v Determi	nation	High	

* Related References: Source cited: EU RAR (2004) EU RAR (2004). European Chemicals Bureau (2004). European Union Risk Assessment Report. Dibutyl phthalate, with addendum 2004. Available at: http://esis.jrc.ec.europa.eu/doc/existing-chemicals/risk_assessment/REPORT/dibutylphthalatereport003.pdf

Page 118 of 213

Study Citation: OECD Harmonized	ECJRC, (2004) logKow	. Summary Risk Assessment Report: D	ibutyl phthalate with add	dendum to the environment section — 2004.
Femplate:	8			
HERO ID:	3661484			
			EXTRACTION	
Parameter		Data		
log k _{ow}		4.57		
CASRN and Test Material		84-74-2; dibutyl phthalate		
Confidentiality, Type, and	Guideline	no; not specified; Not Reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; liquid; >99% (w/w)		
Temperature		Not Reported		
System		Not Reported		
pН		Not Reported		
Results Details Method		Not Reported		
Standard Deviation Results	6	Not Reported		
Results Details		Not Reported		
			EVALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Reported data are consistent with the subject chemical substance structural features.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qualit	ty Determi	nation	Medium	

* Related References: specific reference not identified but include: Banerjee and Howard (1984), BASF (corporate data), BUA (1987), Hoyer and Pepperle (1958), Hüls (corporate data); Leyder and Boulanger (1983), Patty (1981)

Study Citation: OECD Harmonized	Elsevier, (2019) logKow). Reaxys: physical-chemical property dat	a for dibutyl pht	halate. CAS Registry Number: 84-74-2		
Template:	10911011					
HERO ID:	5926413					
			EXTRACTIO	N		
Parameter		Data				
log k _{ow}		4.5 - 4.63				
CASRN and Test Material		84-74-2; Dibutyl phthalate				
Confidentiality, Type, and	Guideline	None; Experimental; Not Reported				
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR				
Radiolabel, Source, State,	and Purity	NR; NR; NR; NR				
Temperature		Not Reported				
System		Not Reported				
pH		Not Reported				
Results Details Method		Not Reported				
Standard Deviation Results		Not Reported				
Results Details		@ 25 C; 6 data points were reported; 3 of these values were reported in the range of 4.5-4.63 at standard temperature; 3 data points were outside the range or measured at non-standard temperatures.				
			EVALUATIO	N		
Domain		Metric	Rating	Comments		
Domain 1: Substance						
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.		
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.		
Domain 2: Test Reliabil	lity					
	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased		
		(Method Objectivity)		towards a particular product or outcome.		
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclu- sion in a peer-reviewed/recognized database or other secondary source.		
Domain 3: Other						
	Metric 5:	Databases	High	Data is from a secondary database with a references to the peer-reviewed original source.		
			37/4			
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.		

* Related References: Data range determined from multiple primary sources in REAXYS.

Study Citation:	Howard, P. H., Banerjee, S., Robillard, K. H. (1985). Measurement of water solubilities octanol-water partition coefficients and vapor pressures of commercial phthalate esters. Environmental Toxicology and Chemistry 4(5):653-662.
OECD Harmonized	logKow
Template:	
HERO ID:	679985
	EXTRACTION
Parameter	Data
$\log k_{ow}$	3.74
CASRN and Test Material	84-74-2; Dibutyl phthalate
Confidentiality, Type, and C	
Solvent, Reactivity, Storage	
Radiolabel, Source, State, a	
Temperature	Not reported
System	HPLC method from a draft ASTM standard practice: Swann, R.L., D.A. Laskowski, P.J. McCall, K. Vander Kuy and H.J. Dishburger. 1983. Residue Rev. 85:17-28.
pH	Not reported
Results Details Method	The standards were benzene (log KOW=2.13), bromobenzene (log KOW = 2.99), biphenyl (log KO, = 3.76), bibenzyl (log KOW = 4.81), p,p-DDE (log KOW = 5.69), 2,4,5,2',5'-pentachlorobiphenyl (log KOW = 6.11) and 2,4,5,2',4',5'-hexachlorobiphenyl (log KOW = 6.72).
Standard Deviation Results	0.006
Results Details	Not Reported

			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features (e.g., presence of certain functional groups) and other physical/chemical properties.
Domain 2: Test Reliab	ility			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	High	The methodology for producing the information is designed to answer a specific ques- tion, and the methodology's objective is clear.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate.
Domain 3: Other				
	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qual	ity Dotorm	ination	High	
Uver all Qual	ity Determ	IIIauvii	ingn	

Study Citation: OECD Harmonized Template:	, , ,	Banerjee, S., Robillard, K. H. (1985). Measurement of water solubilities octanol-water partition coefficients and vapor pressures of halate esters. Environmental Toxicology and Chemistry 4(5):653-662.
HERO ID:	679985	
		EXTRACTION
Parameter		Data
log k _{ow}		4.79
CASRN and Test Material		84-74-2; Dibutyl phthalate
Confidentiality, Type, and (Guideline	None; Experimental; partition method
Solvent, Reactivity, Storage	e, and Stability	NR; NR; If more than one manufacturer produced the individual PAE, the PAE product provided to us was an equal-proportion blend.
Radiolabel, Source, State, a	and Purity	NR; Provided to Chemical Manufacturers' Association by U.S. manufacturers.; NR; Each sample contained less than 1 % of non-PAE material, as determined by another laboratory. Notes: single isomer
Temperature		Not reported
System		Partition method
pH		Not reported
Results Details Method		Not Reported
Standard Deviation Results	8	0.234
Results Details		Value is for the mean of six determinations, three at 0.01 M and three at 0.1 M; the latter is not a recommended concentration. The DBP log Kow, for the mean of the three determinations at 0.01 M (4.59) is considerably closer to the other literature values than the mean at 0.1 M (4.99), which may suggest the importance of working with the recommended concentration range.

			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features (e.g., presence of certain functional groups) and other physical/chemical properties.
Domain 2: Test Reliab	oility			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	High	Standard method; result is consistent with literature values.
	Metric 4:	Reliability/Analytical Method	High	Data are obtained by accepted standard analytical methods.
Domain 3: Other				
	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Study Citation:		nan, J., Karam, R., Goutaudier, C., Mokbel, I., Saliba, C., Saab, J. (2016). Aqueous solubility, vapor pressure and octanol-water partition vo phthalate isomers dibutyl phthalate and di-isobutyl phthalate contaminants of recycled food packages. Fluid Phase Equilibria 427:362-	
	370.		
OECD Harmonized	logKow		
Template:	0.475405		
HERO ID:	3475635		
		EXTRACTION	
Parameter		Data	
log kow		4.53	
CASRN and Test Material		84-74-2; Dibutyl phthalate	
Confidentiality, Type, and	Guideline	None; Experimental; Not Reported	
Solvent, Reactivity, Storag	e, and Stability	NR; NR; NR	
Radiolabel, Source, State,	and Purity	NR; Sigma-Aldrich; NR; 99% Notes: Used without further purification	
Temperature		298.15 K	
System		Shake-flask method with n-octanol and purified water, quantified by HPLC-UV.	
pH		Not reported	
Results Details Method		n-Octanol pre-saturated water with the test substance is poured into a test vessel and stirred with a magnetic stirring bar. 100 g of the aqueous phase is analyzed through C-18 cartridges and eluted with methanol. The concentration of the solute is then quantified by HPLC-UV.	
Standard Deviation Result	8	0.092	
Results Details		Value the average of 3 replicates at atmospheric pressure.	

			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features (e.g., presence of certain functional groups) or other physical/chemical properties.
Domain 2: Test Reliab	oility			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	High	The methodology for producing the information is designed to answer a specific ques- tion, and the methodology's objective is clear. Methodology reported in J. Saab, G. Basil, R. About Niccol, J. Stephan, I. Mokbel, J. Jose, Chemosphere 82 (2011) 929-934.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate.
Domain 3: Other				
	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qual	ity Determ	ination	High	
		Co	ntinued on next p	bage

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PUBLIC RELEASE DRAFT May 2025 logKow

HERO ID: 3475635 Table: 1 of 1

	continued from previous page	
coefficient of two phthalate isomers dibutyl p		
logKow		
-		
3475635		
	EVALUATION	
Metric	Rating	Comments
	coefficient of two phthalate isomers dibutyl j 370. logKow 3475635	Ishak, H., Stephan, J., Karam, R., Goutaudier, C., Mokbel, I., Saliba, C., Saab, J. (2016) coefficient of two phthalate isomers dibutyl phthalate and di-isobutyl phthalate contamina 370. logKow 3475635 EVALUATION

Study Citation:	Lu, C. (2009). F 83(2):168-173.	Prediction of environmental properties in water-soil-air systems for phthalates. Bulletin of Environmental Contamination and Toxicology
OECD Harmonized	logKow	
Template:		
HERO ID:	807140	
		EXTRACTION
Parameter		Data
log k _{ow}		4.22
CASRN and Test Material		84-74-2; di-n-butyl phthalate
Confidentiality, Type, and	Guideline	none; QSAR; Quantitative Structure-Property relationship model for estimation of log Kow
Solvent, Reactivity, Storag	e, and Stability	NR; NR; NR
Radiolabel, Source, State,	and Purity	NR; NR; NR Notes: DBP
Temperature		not applicable
System		QSPR model using the Lu index, which is based on the shortest distance matrix.
pH		not applicable
Results Details Method		Predictive model developed using Lu index: Log Kow = -4.7875 + 0.5315 (Lu)
Standard Deviation Results	S	Not Reported
Results Details		n = 15; correlation coefficient (R) = 0.9836; standard error (SE) = 0.40; leave-one-out cross validation correlation coefficient (Rsv) = 0.9784; corresponding standard errors (scv) = 0.47

			EVALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliab	ility			
	Metric 3:	Reliability/Unbiased	N/A	Rating of this factor is not applicable to this kind of information.
		(Method Objectivity)		
	Metric 4:	Reliability/Analytical Method	N/A	Rating of this factor is not applicable to this kind of information.
Domain 3: Other				
	Metric 5:	Databases	N/A	Rating of this factor is not applicable to this kind of information.
	Metric 6:	Models	Uninformative	The QSPR model failed the standard error threshold of <0.3 and is therefore rated unac ceptable.
Overall Qual	ity Determ	ination	Medium	

Study Citation: OECD Harmonized	Mueller, M., Kl logKow	lein, W. (1992). Comparative evaluation of	of methods predic	ting water solubility for organic compounds. Chemosphere 25(6):769-782.
Template:	(= 1 = = 1			
HERO ID:	654554			
D		Dete	EXTRACTIO	N
Parameter		Data		
log k _{ow}		4.69		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and	Guideline	None; Calculation; Not Reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR		
Temperature		Not reported		
System		Not reported		
pH		Not reported		
Results Details Method		Not reported		
Standard Deviation Results	5	Not reported		
Results Details		calculated Pow-values -MedChem-Softw	are 1989	
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance			-	
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	Medium	Calculated data consistent with the subject chemical substance structural features.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased	High	The methodology for producing the information is designed to answer a specific ques-
		(Method Objectivity)	č	tion, and the methodology's objective is clear.
	Metric 4:	Reliability/Analytical Method	N/A	This matrix is not applicable to this calculated data.
Domain 3: Other				
	Metric 5:	Databases	N/A	This matrix is not applicable to this calculated data.
	Metric 6:	Models	High	The model had a defined, unambiguous endpoint and the model performance was known.
Overall Qualit		mation	High	

Study Citation: OECD Harmonized	NLM, (2024). 1 logKow	PubChem: Hazardous Substance Data Ba	nk: Dibutyl phtha	alate, 84-74-2.
Template:	10811011			
HERO ID:	5926108			
			EXTRACTIO	N
Parameter		Data		
log k _{ow}		4.5		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and	Guideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State,	and Purity	NR; NR; NR; NR		
Temperature		Not Reported		
System		Not Reported		
рН		Not Reported		
Results Details Method		Not Reported		
Standard Deviation Results	8	Not Reported		
Results Details		Not Reported		
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliabil	itv			
	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
	M-4	(Method Objectivity)	Madia	towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclu- sion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
Domain 5. Outor	Metric 5:	Databases	High	Data is from a publicly available database that provides references to a peer-reviewed source.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quali	ty Determi	nation	High	

* Related References: Ellington, J.J., Floyd, T.L.. 1996. Octanol/water partition coefficients for eight phthalate esters. EPA/600/S-96/006. Sept 1996. Athens, GA: U.S. Environ Prot Agency, National Exposure Research Lab.

Study Citation:	SRC, (1984). F	inal report measurement of octanol-water partition coefficients of phthalate esters.
OECD Harmonized	logKow	
Template:		
HERO ID:	1316207	
		EXTRACTION
Parameter		Data
11-		
log k _{ow}		4.79 -
CASRN and Test Material		84-74-2; dibutyl phthalate
Confidentiality, Type, and	Guideline	No; experimental; Equilibrium method
Solvent, Reactivity, Storag	e, and Stability	Not Reported; Not Reported; Not Reported; Not Reported
Radiolabel, Source, State,	and Purity	Not Reported; US Manufacturers; Not Reported; Not Reported Notes: analyzed to be within commercial specification limits
Temperature		25°C
System		Test substance in equal parts octanol and water shook in a centrifuge tube and kept at a constant temperature for 1 hour. The tubes were centrifuged
pН		at the end of the hour. Not reported
Results Details Method		HPLC
Standard Deviation Result	s	0.094
Results Details		Also reported as kow = 69000 ± 14700 ; 39000 ± 17300 at $10^{-2}M$ and 99000 ± 12700 at $10^{-1}M$

Comments subject chemical substance. subject chemical substance structural features.
5
5
subject chemical substance structural features.
formation is designed to answer a specific ques- is clear.
l analytical methods, including, but not limited to al properties or other developed standard.
o this kind of information.
o this kind of information.

* Related References: Entered into ECHA as 2 (reliable with restrictions)

Study Citation:		inal report measurement of octanol-water	partition coeffic	ients of phthalate esters.
OECD Harmonized	logKow			
Template: HERO ID:	1316207			
HERO ID:	1310207			
			EXTRACTIO	N
Parameter		Data		
log k _{ow}		3.74 -		
CASRN and Test Material	l	84-74-2; dibutyl phthalate		
Confidentiality, Type, and	Guideline	No; experimental; HPLC method		
Solvent, Reactivity, Storag	ge, and Stability	Not Reported; Not Reported; Not Repor	ted; Not Reported	
Radiolabel, Source, State,	and Purity	Not Reported; US Manufacturers; Not R	eported; Not Repor	rted Notes: analyzed to be within commercial specification limits
Temperature		25°C		
System		partition coefficient correlated to HPLC	retention time	
pH		Not reported		
Results Details Method		HPLC		
Standard Deviation Result	s	0.003		
Results Details		Value reported is within the range of the	values reported by	the OECD for their partitioning method.
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Value is within the range reported by the OECD.
Domain 2: Test Reliabi	lity			
	Metric 3:	Reliability/Unbiased	High	The methodology for producing the information is designed to answer a specific ques- tion, and the methodology's objective is clear.
		(Method Objectivity) Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate.
	Metric 1.		wiediulli	The analytical method is non-standard but is expected to be appropriate.
	Metric 4:	Kenabinty/Anarytical Method		
Domain 3: Other	Metric 4: Metric 5:	Databases	N/A N/A	Rating of this factor is not applicable to this kind of information.

Study Citation: OECD Harmonized	U.S. EPA, (201 logKow	5). Update of Human Health Ambient Wat	er Quality Criteria:	Di-n-butyl Phthalate (CASRN 84-74-2).
Template: HERO ID:	10141842			
			EXTRACTION	
Parameter		Data		
lask		3.7 - 4.72		
log k _{ow} CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and	Guideline	none; not specified; not reported		
Solvent, Reactivity, Storage		Not Reported; Not Reported; Not Reported	d. Not Reported	
Radiolabel, Source, State, a		Not Reported; Not Reported; Not Reported		
Temperature	and I unity	not reported	a, not reported	
System		not reported		
рН		not reported		
Results Details Method		not reported		
Standard Deviation Results	5	not reported		
Results Details		1	60123 reports the valu	ues as: 4.72 (Hansch et al. 1995), 4.45 (Staples et al. 1997) and 3.7 (de Bruijn et
		al. 1989)		
			EVALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are for the subject chemical substance.
	Metric 2:	Appropriateness	High	Data are consistent with the subject chemical substance structural features.
Domain 2: Test Reliabil	ity			
20main 2. Test Kelldoll	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
	moure J.	(Method Objectivity)	1.1Culuili	towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other				
Domain 5: Other	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High
	weule 5.	DataUASES	wiculuili	designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qualit	ty Determi	nation	Medium	

* Related References: Citing ATSDR 2001 HERO ID 5160123; not in distiller at time of extraction.

Study Citation: OECD Harmonized	U.S. EPA, (201) logKow	9). Chemistry Dashboard Information for	r Dibutyl Phthala	te. 84-74-2
Template:	logitow			
HERO ID:	5926161			
			EXTRACTIO	N
Parameter		Data		
log k _{ow}		4.5		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and	Guideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storag	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State,	and Purity	NR; NR; NR; NR		
Temperature	-	Not Reported		
System		Not Reported		
pH		Not Reported		
Results Details Method		Not Reported		
Standard Deviation Results	8	Not Reported		
Results Details		Not Reported		
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliabil	lity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclu- sion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	High	Data is from a publicly available database that references peer-reviewed original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quali	ty Dotormi	nation	High	

* Related References: PhysProp. Ellington, JJ and Floyd, TL. 1996

Study Citation:	chromatograph	M., Klamer, C., H.J., Villerius, L., Brinkman, T., U.A., Hermens, J. L. (1999). Gradient elution reversed-phase high-performance liquid y for fractionation of complex mixtures of organic micropollutants according to hydrophobicity using isocratic retention parameters. Journal apply A 835(1-2):19-27.		
OECD Harmonized	logKow			
Template:				
HERO ID:	1333747			
		EXTRACTION		
Parameter		Data		
log k _{ow}		4.25		
CASRN and Test Material	l	84-74-2; Dibutyl phthalate		
Confidentiality, Type, and	Guideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storag	nt, Reactivity, Storage, and Stability Pure methanol; NR; NR; NR			
Radiolabel, Source, State, and Purity		NR; Fluka, Aldrich-Chemie, Riedel-de Haen, Merck, Shell Nederland Chemie, J.T. Baker or Accu Standards; Liquid; High purity Notes: Analyte measured at concentrations of 0.5-5 mM/200 µL total volume in methanol		
Temperature		$22 \pm 0.2^{\circ}\mathrm{C}$		
System		System Retention times measured with a solvent delivery system and UV detector operated at 254 nm. A C18-bonded silica colu were used for retention. The eluent was a solution of HPLC-grade methanol and MilliQ water.		Retention times measured with a solvent delivery system and UV detector operated at 254 nm. A C18-bonded silica column and guard column were used for retention. The eluent was a solution of HPLC-grade methanol and MilliQ water.
pH		Not reported		
Results Details Method		Gradient elution RP-HPLC.		
Standard Deviation Result	S	Not Reported		
Results Details		Calculated from experimental retention times.		

		EVALUATIO	N
Domain	Metric	Rating	Comments
Domain 1: Substance			
Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features (e.g., presence of certain functional groups) or other physical/chemical properties.
Domain 2: Test Reliability			
Metric 3:	Reliability/Unbiased (Method Objectivity)	High	The methodology for producing the information is designed to answer a specific ques- tion, and the methodology's objective is clear.
Metric 4:	Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate.
Domain 3: Other			
Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Deter	rmination	High	

Continued on next page ...

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PUBLIC RELEASE DRAFT May 2025 logKow

HERO ID: 1333747 Table: 1 of 1

continued from previous page						
Study Citation:			999). Gradient elution reversed-phase high-performance liquid g to hydrophobicity using isocratic retention parameters. Journal			
OECD Harmonized	logKow					
Template:						
HERO ID:						
		EVALUATION				
Domain	Metric	Rating	Comments			

Study Citation: Defoe, D. L., Holcombe, G. W., Hammermeister, D. E., Biesinger, K. E. (1990). Solubility and toxicity of eight phthalate esters to four aquation Environmental Toxicology and Chemistry 9(5):623-636.		
OECD Harmonized	Water Solubility	
Template:		
HERO ID:	5774391	
		EXTRACTION
Parameter		Data
Water Solubility		8.70 - 9.6 mg/L
CASRN and Test Material		84-74-2; Di-n-butyl-ortho-phthalate (DBop)
Confidentiality, Type, and Guideline		None; Experimental; Not reported
		None; NR; NR
		No; Aldrich Chemical Company (Milwaukee, WI); NR; >99% Notes: Authors tested a commercial product from Aldrich and a high purity product synthesized for aquatic testing from Oak Ridge National Laboratory (Oak Ridge, TN).
Temperature		Not reported
System		Two methods used: Blended stock with centrifugation and Turbidity inflection; ASTM methods with documented deviations.
рН		Not reported
Results Details Method		Centrifugation: chemical analysis was performed on the supernatant; Turbidity inflection: Hach Turbidity Meter - Nephelometric Turbidity Units (NTU) values were plotted vs. nominal concentrations.
Standard Deviation Results	s	Not reported
Results Details		Commercial product: Centrifugation results = 8.70 mg/L , Turbidity inflection = 9.40 mg/L ; Synthesized product: Centrifugation results = 9.60 mg/L , Turbidity inflection = 9.40 mg/L

		EVALUATIO	N
Domain	Metric	Rating	Comments
Domain 1: Substance			
Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features.
Domain 2: Test Reliability			
Metric 3:	Reliability/Unbiased (Method Objectivity)	High	The methodology for producing the information is designed to answer a specific ques- tion, and the methodology's objective is clear.
Metric 4:	Reliability/Analytical Method	Medium	Data are obtained by accepted standard analytical methods with noted modification. Temperature not reported.
Domain 3: Other			
Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determ	ination	High	

Continued on next page ...

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continued from previous page					
Study Citation:			and toxicity of eight phthalate esters to four aquatic organisms.		
	Environmental Toxicology and Chemistry 9(5	5):623-636.			
OECD Harmonized	Water Solubility				
Template:	-				
HERO ID:	5774391				
		EVALUATION			
Domain	Metric	Rating	Comments		

Study Citation: OECD Harmonized	EC/HC, (1994). Water Solubility	. Canadian environmental protection act	t priority substances list	assessment report: Dibutyl phthalate.
Template:	Water Boraonni	, ,		
HERO ID:	1333071			
			EXTRACTION	
Parameter		Data		
Water Solubility		ca. 10 mg/L		
CASRN and Test Material		84-74-2; dibutyl phthalate		
Confidentiality, Type, and	Guideline	no; not specified; Not Reported		
Solvent, Reactivity, Storag	ge, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State,	and Purity	NR; NR; liquid; NR		
Temperature		Not Reported		
System		Not Reported		
pH		Not Reported		
Results Details Method		Not Reported		
Standard Deviation Result	s	Not Reported		
Results Details		Not Reported		
- ·			EVALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance	34.1.4		TT: 1	
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features or other physical/chemical properties or behaviors.
Domain 2: Test Reliabi	lity			
	Metric 3:	Reliability/Unbiased	Medium	here is no indication that the methodology for producing the information was biased
		(Method Objectivity)		towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
Section 5. Other	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quali	ty Determi	nation	Medium	

* Related References: McKone, T.E. and D.W. Layton, "Exposure and Risk Assessment of Toxic Waste in a Multimedia Context," 79th Annual Meeting of the Air Pollution Control Association, Minneapolis, MI, June 22-27, 1986, Vol. 1, 86-12.1, 16 pp. (1986).

Study Citation: OECD Harmonized	EC/HC, (1994). Water Solubility	. Canadian environmental protection act	t priority substances list	assessment report: Dibutyl phthalate.
Template:	······			
HERO ID:	1333071			
			EXTRACTION	
Parameter		Data		
Water Solubility		4500 mg/L		
CASRN and Test Material		84-74-2; dibutyl phthalate		
Confidentiality, Type, and	Guideline	no; not specified; Not Reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; liquid; NR		
Temperature		Not Reported		
System		Not Reported		
pH		Not Reported		
Results Details Method		Not Reported		
Standard Deviation Results	6	Not Reported		
Results Details		Not Reported		
			EVALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features or other physical/chemical properties or behaviors.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quali	tv Determi	nation	Medium	

* Related References: Leyder, F. and P. Boulanger, "Ultraviolet Absorption, Aqueous Solubility, and Octanol-water Partition for Several Phthalates," Bull. Environ. Contam. Toxicol., 30:152-157 (1983).

Study Citation:	EC/HC, (2015). State of the science report: Phthalate substance grouping: Medium-chain phthalate esters: Chemical Abstracts Service Registry Numbers: 84-61-7; 84-64-0; 84-69-5; 523-31-9; 5334-09-8;16883-83-3; 27215-22-1; 27987-25-3; 68515-40-2; 71888-89-6.			
DECD Harmonized	Water Solubilit		-83-3; 27215-22-1; 279	187-25-3; 68515-40-2; 71888-89-6.
Template:		-		
HERO ID:	3688160			
			EXTRACTION	
Parameter		Data		
Water Solubility		11.4 - 13 mg/L		
CASRN and Test Material		84-74-2; dibutyl phthalate		
Confidentiality, Type, and	Guideline	no; experimental; Not Reported		
Solvent, Reactivity, Storag	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State,	and Purity	NR; NR; liquid; NR		
Temperature		Not Reported		
System		Not Reported		
pH		Not Reported		
Results Details Method		Not Reported		
Standard Deviation Results	5	Not Reported		
Results Details		Not Reported		
			EVALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliabil	lity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other				
	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

* Related References: cites: Wolfe NL, Steen WC, Burns LA. 1980. Phthalate ester hydrolysis: Linear free energyrelationships. Chemosphere 9:403-8.

Study Citation: OECD Harmonized	EC/HC, (2017) Water Solubility	. Draft screening assessment: Phthalate	substance groupin	g.
Template:	•	-		
HERO ID:	5353181			
			EXTRACTIO	N
Parameter		Data		
Water Solubility		11.4 mg/L		
CASRN and Test Material		84-74-2; dibutyl phthalate		
Confidentiality, Type, and O	Guideline	no; experimental; Not Reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR		
Temperature		not specified		
System		not specified		
pH		not specified		
Results Details Method		not specified		
Standard Deviation Results	1	not specified		
Results Details		not specified		
			EVALUATIO	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other				
Zomun 5. Onor	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qualit	v Determi	nation	High	

* Related References: Source cited: ECHA c2007-2015b

Study Citation: OECD Harmonized	ECETOC, (198 Water Solubilit	5). An assessment of the occurrence and y	effects of dialkyl	ortho-phthalates in the environment.
Template: HERO ID:	679967			
			EXTRACTIO	N
Parameter		Data		
Water Solubility		4.5E6 - ug/L		
CASRN and Test Material		Not Reported; Dibutyl phthalate		
Confidentiality, Type, and	Guideline	No; not specified; NR		
Solvent, Reactivity, Storage		Not Reported; Not Reported; Not Report	ed; Not Reported	
Radiolabel, Source, State, a		Not Reported; Not Reported; Not Report		
Temperature		25 deg C		
System		Not Reported		
pH		Not Reported		
Results Details Method		Not Reported		
Standard Deviation Results	3	Not Reported		
Results Details		Not Reported		
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Low	The present authors believe that value are wrong in the light of the other figures quoted.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other				
	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quali	tv Determi	nation	Low	

* Related References: Citing Fishbein and Albro (1972), HERO ID 1313257.

Study Citation: OECD Harmonized		5). An assessment of the occurrence and e	ffects of dialkyl orth	o-phthalates in the environment.
Template:	Water Solubility	y		
HERO ID:	679967			
	017701		EXTRACTION	
Parameter		Data	EATRACTION	
		1070 5		
Water Solubility		13E3 - ug/L		
CASRN and Test Material		Not Reported; DBP		
Confidentiality, Type, and C		No; not specified; NR		
Solvent, Reactivity, Storage	•	Not Reported; Not Reported; Not Reporte	*	
Radiolabel, Source, State, a	nd Purity	Not Reported; Not Reported; Not Reporte	a; Not Reported	
Temperature		Not Reported Not Reported		
System		Not Reported		
pH Results Details Method		Not Reported		
Standard Deviation Results		Not Reported		
Results Details		Not Reported		
Domain		Metric	EVALUATION Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features.
Domain 2: Test Reliabili	ty			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other				
	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qualit	y Determi	nation	Medium	

* Related References: Citing Wolfe , N.L., Steen, W.C. and Burns, L.A. (1979). Unpublished report available from US EPA, Environ. Res. Lab., Athens, Georgia. No HERO ID.

Study Citation: OECD Harmonized	ECETOC, (198 Water Solubility	5). An assessment of the occurrence and et	ffects of dialkyl orth	o-phthalates in the environment.		
Template:	water Solubility	Ý				
HERO ID:	679967					
			EXTRACTION			
Parameter		Data	EATRACTION			
Water Solubility		11E3 - ug/L				
CASRN and Test Material		Not Reported; DBP				
Confidentiality, Type, and G	huideline	No; not specified; NR				
Solvent, Reactivity, Storage		Not Reported; Not Reported; Not Reported	d: Not Reported			
Radiolabel, Source, State, a	-	Not Reported; Not Reported; Not Reported	-			
Temperature		25 deg C	I III			
System		Not Reported				
pH		Not Reported				
Results Details Method		Not Reported				
Standard Deviation Results		Not Reported				
Results Details		Not Reported				
			EVALUATION			
Domain		Metric	Rating	Comments		
Domain 1: Substance						
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.		
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features.		
Domain 2: Test Reliabili	tv					
 	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased		
		(Method Objectivity)		towards a particular product or outcome.		
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.		
Domain 3: Other						
Domain J. Outer	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High		
				designation such as peer-review, public availability, or the inclusion of references to original sources.		
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.		

* Related References: Citing CMA (1983). Measurement of the water-solubility of phthalate esters. Final report, Contract PE-11. 0-WS-SRL. LI533-06, Syracuse Res. Corp., April, 1983. No HERO ID.

Study Citation: OECD Harmonized	ECETOC, (198 Water Solubility	5). An assessment of the occurrence and ex	ffects of dialkyl ortho	p-phthalates in the environment.
Template:	water Solubility	y		
HERO ID:	679967			
			EXTRACTION	
Parameter		Data		
Water Solubility		10E3 - ug/L		
CASRN and Test Material		Not Reported; DBP		
Confidentiality, Type, and	Guideline	No; not specified; NR		
Solvent, Reactivity, Storage	e, and Stability	Not Reported; Not Reported; Not Reporte	d; Not Reported	
Radiolabel, Source, State, a	and Purity	Not Reported; Not Reported; Not Reporte	d; Not Reported	
Temperature		20 deg C		
System		Not Reported		
pН		Not Reported		
Results Details Method		Not Reported		
Standard Deviation Results	6	Not Reported		
Results Details		Not Reported		
			EVALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other				
2 sham 5. Suloi	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quali	ty Determi	nation	Medium	

* Related References: Citing Leyder and Boulanger (1983) HERO ID 679764.

Study Citation:				Socio-economic Analysis (SEAC): Background document to the Opinion on the
OECD Harmonized	Water Solubilit	sier proposing restrictions on four phtha y	uates: Annexes.	
Template:				
HERO ID:	7325405			
			EXTRACTIO	N
Parameter		Data		
Water Solubility		10 mg/L		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and C	Guideline	none; not specified; not specified		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; liquid; NR		
Temperature		20°C		
System		not specified		
pH		not specified		
Results Details Method		not specified		
Standard Deviation Results		not specified		
Results Details		not specified		
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other				
	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qualit	tv Determi	nation	High	

* Related References: Source cited: EU RAR (2004) EU RAR (2004). European Chemicals Bureau (2004). European Union Risk Assessment Report. Dibutyl phthalate, with addendum 2004. Available at: http://esis.jrc.ec.europa.eu/doc/existing-chemicals/risk_assessment/REPORT/dibutylphthalatereport003.pdf

Study Citation: OECD Harmonized	ECJRC, (2004). Water Solubility		ibutyl phthalate with ad	dendum to the environment section — 2004 .
Template:				
HERO ID:	3661484			
			EXTRACTION	
Parameter		Data		
Water Solubility		10 mg/L		
CASRN and Test Material		84-74-2; dibutyl phthalate		
Confidentiality, Type, and C	Guideline	no; not specified; Not Reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; liquid; >99% (w/w)		
Temperature		20°C		
System		Not Reported		
pН		Not Reported		
Results Details Method		Not Reported		
Standard Deviation Results		Not Reported		
Results Details		Not Reported		
			EVALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Reported data are consistent with the subject chemical substance structural features.
Domain 2: Test Reliabili	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

* Related References: specific reference not identified but include: Banerjee and Howard (1984), BASF (corporate data), BUA (1987), Hoyer and Pepperle (1958), Hüls (corporate data); Leyder and Boulanger (1983), Patty (1981)

Study Citation: OECD Harmonized	Elsevier, (2019) Water Solubility). Reaxys: physical-chemical property dat	a for dibutyl pht	halate. CAS Registry Number: 84-74-2
Template:	-			
HERO ID:	5926413			
			EXTRACTIO	N
Parameter		Data		
Water Solubility		1.5 - 14.6 mg/L		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and	Guideline	None; Experimental; Not reported		
Solvent, Reactivity, Storag	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State,	and Purity	NR; NR; NR; NR		
Temperature		25°C		
System		Not Reported		
pH		Not reported		
Results Details Method		Reported as 0.0015 to 0.0146 g/L at 25 C	2	
Standard Deviation Results	8	Not Reported		
Results Details	Results Details 12 data points were reported in Reaxys; non-standard temperatures.		; 3 values were re	ported at 1.5 to 14.6 mg/L at standard temperature; 9 data points were measured at
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliabil	lity			
	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
		(Method Objectivity)		towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclu- sion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	High	Data is from a secondary database with a references to the peer-reviewed original source.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quali	ty Dotormi	nation	High	

* Related References: Data range determined from multiple primary sources in REAXYS.

Study Citation: Howard, P. H., Banerjee, S., Robillard, K. H. (1985). Measurement of water solubilities octanol-water partition coefficients and va commercial phthalate esters. Environmental Toxicology and Chemistry 4(5):653-662.				
OECD Harmonized Water Solubility				
Template:				
HERO ID:	679985			
		EXTRACTION		
Parameter		Data		
Weter Calability		11.2		
Water Solubility		11.2 mg/L		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and Guideline		None; Experimental; Not reported		
Solvent, Reactivity, Storag	e, and Stability	NR; NR; If more than one manufacturer produced the individual PAE, the PAE product provided to us was an equal-proportion blend.		
Radiolabel, Source, State, and Purity		NR; Provided to Chemical Manufacturers' Association by U.S. manufacturers.; NR; Each sample contained less than 1 % of non-PAE material, as determined by another laboratory. Notes: single isomer		
Temperature		25°C		
System		Protocol was designed to meet or exceed the requirements of the EPA-recommended procedure stated in U.S. Environmental Protection Agency. 1979. TSCA premanufacture testing of new chemical substances: Water solubility. Fed. Reg. 44: 16253-16259.		
pH		Not reported		
Results Details Method		HPLC		
Standard Deviation Result	s	0.3		
Results Details		ASTM Type 2 water		

	EVALUATION					
Domain		Metric	Rating	Comments		
Domain 1: Substance						
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.		
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features		
				(e.g., presence of certain functional groups) and other physical/chemical properties.		
Domain 2: Test Reliabi	ility					
	Metric 3:	Reliability/Unbiased	High	Standard test method used.		
		(Method Objectivity)				
	Metric 4:	Reliability/Analytical Method	High	Protocol was designed to meet or exceed the requirements of the EPA-recommended		
				procedure.		
Domain 3: Other						
	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are		
			e	peer-reviewed by experts in the field, are broadly available to the public for review and		
				use OR includes references to the original sources.		
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.		
Overall Quali	ty Determ	ination	High			
	•	Co	ntinued on next	Dage		

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		continued from previous page				
Study Citation:	Howard, P. H., Banerjee, S., Robillard, K. F. commercial phthalate esters. Environmental To		lities octanol-water partition coefficients and vapor pressures of			
OECD Harmonized	Water Solubility					
Template:						
HERO ID:	679985					
		EVALUATION				
Domain	Metric	Rating	Comments			

Study Citation:	coefficient of two phthalate isomers dibutyl phthalate and di-isobutyl phthalate contaminants of recycled food packages. Fluid Phase Equilibri				
OECD Harmonized	370. Water Solubility				
Template:	Water Solubility				
HERO ID:	3475635				
		EXTRACTION			
Parameter		Data			
Water Solubility		6.350E-7			
CASRN and Test Material		84-74-2; Dibutyl phthalate			
Confidentiality, Type, and Confidentiality, Confid	Guideline	None; Experimental; Not reported			
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR			
Radiolabel, Source, State, a	and Purity	NR; Sigma-Aldrich; NR; 99% Notes: Used without further purification			
Temperature		298.15 K			
System		Water solubility measured using a dynamic saturation apparatus with quantification via HPLC-UV. Methanol was used as the solvent for elution.			
pH		Not reported			
Results Details Method		Temperature measurement accuracy was ± 0.02 K.			
Standard Deviation Results	5	1.18E-6			
Results Details		Value reported as mole fraction, where mole fraction = n solute / (n water + n solute). The value could not be converted to standard units as the volume of water used was not reported in this paper. Value initially reported as $6.350E7$ but based on later references to solubilities of "10^-7", this is believed to be a typo. Average of three replicates measured at atmospheric pressure.			

			EVALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	Medium	Data cannot be converted to standard units and therefore appropriateness cannot be verified, but is likely to be appropriate based on the data's inclusion in a peer-reviewed article.
Domain 2: Test Reliab	oility			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate.
Domain 3: Other				
	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

		continued from previous page	
Study Citation:	coefficient of two phthalate isomers dibutyl p		queous solubility, vapor pressure and octanol-water partition s of recycled food packages. Fluid Phase Equilibria 427:362-
OECD Harmonized	370. Water Solubility		
Template:	5		
HERO ID:	3475635		
		EVALUATION	
Domain	Metric	Rating	Comments
Overall Quali	ty Determination	Medium	

Study Citation: Ishak, H., Stephan, J., Karam, R., Goutaudier, C., Mokbel, I., Saliba, C., Saab, J. (2016). Aqueous solubility, vapor pressure and octanol-water partice coefficient of two phthalate isomers dibutyl phthalate and di-isobutyl phthalate contaminants of recycled food packages. Fluid Phase Equilibria 427:370.				
				OECD Harmonized
Template: HERO ID:	3475635			
HERO ID:	5475055			
		EXTRACTION		
Parameter		Data		
Water Solubility		6.507E-7		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and	Guideline	None; Experimental; Not reported		
Solvent, Reactivity, Storag	ge, and Stability	NR; NR; NR		
Radiolabel, Source, State,	and Purity	NR; Sigma-Aldrich; NR; 99% Notes: Used without further purification		
Temperature		308.15 K		
System		Water solubility measured using a dynamic saturation apparatus with quantification via HPLC-UV. Methanol was used as the solvent for elution.		
рН		Not reported		
Results Details Method		Temperature measurement accuracy was ± 0.02 K.		
Standard Deviation Result	s	8.05E-5		
Results Details		Value reported as mole fraction, where mole fraction = n solute / (n water + n solute). The value could not be converted to standard units as the volume of water used was not reported in this paper. Value initially reported as $6.507E7$ but based on later references to solubilities of "10^-7", this is believed to be a typo. Average of three replicates measured at atmospheric pressure.		

			EVALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	Medium	Data cannot be converted to standard units and therefore appropriateness cannot be verified, but is likely to be appropriate based on the data's inclusion in a peer-reviewed article.
Domain 2: Test Relia	bility			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate.
Domain 3: Other				
	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qua	lity Determ	ination	Medium	

Study Citation:	Ishak, H., Stephan, J., Karam, R., Goutaudier, C., Mokbel, I., Saliba, C., Saab, J. (2016). Aqueous solubility, vapor pressure and octanol-water partition coefficient of two phthalate isomers dibutyl phthalate and di-isobutyl phthalate contaminants of recycled food packages. Fluid Phase Equilibria 427:362-			
OECD Harmonized 370. Water Solubility				
Template:	water Solubility			
HERO ID:	3475635			
		EXTRACTION		
Parameter		Data		
Water Solubility		7.074E-7		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and	Guideline	None; Experimental; Not reported		
Solvent, Reactivity, Storag	e, and Stability	NR; NR; NR		
Radiolabel, Source, State,	and Purity	NR; Sigma-Aldrich; NR; 99% Notes: Used without further purification		
Temperature		318.15 K		
System		Water solubility measured using a dynamic saturation apparatus with quantification via HPLC-UV. Methanol was used as the solvent for elution.		
pH		Not reported		
Results Details Method		Temperature measurement accuracy was ± 0.02 K.		
Standard Deviation Results	5	1.11E-6		
Results Details		Value reported as mole fraction, where mole fraction = n solute / (n water + n solute). The value could not be converted to standard units as the volume of water used was not reported in this paper. Value initially reported as 7.074E7 but based on later references to solubilities of " 10^{-7} ", this is believed to be a typo. Average of three replicates measured at atmospheric pressure.		

			EVALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance	;			
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	Medium	Data cannot be converted to standard units and therefore appropriateness cannot be verified, but is likely to be appropriate based on the data's inclusion in a peer-reviewed article.
Domain 2: Test Relia	bility			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate.
Domain 3: Other				
	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qua	lity Determ	ination	Medium	

Study Citation: OECD Harmonized Template: HERO ID:	 Ishak, H., Stephan, J., Karam, R., Goutaudier, C., Mokbel, I., Saliba, C., Saab, J. (2016). Aqueous solubility, vapor pressure and octa coefficient of two phthalate isomers dibutyl phthalate and di-isobutyl phthalate contaminants of recycled food packages. Fluid Phase 1 370. Water Solubility 				
		EXTRACTION			
Parameter		Data			
Water Solubility		8.234E-7			
CASRN and Test Materia	1	84-74-2; Dibutyl phthalate			
Confidentiality, Type, and	Guideline	None; Experimental; Not reported			
Solvent, Reactivity, Stora	ge, and Stability	NR; NR; NR			
Radiolabel, Source, State,	and Purity	NR; Sigma-Aldrich; NR; 99% Notes: Used without further purification			
Temperature		328.15 K			
System		Water solubility measured using a dynamic saturation apparatus with quantification via HPLC-UV. Methanol was used as the solvent for elution.			
pH		Not reported			
Results Details Method		Temperature measurement accuracy was ± 0.02 K.			
Standard Deviation Resul	ts	2.80E-5			
Results Details		Value reported as mole fraction, where mole fraction = n solute / (n water + n solute). The value could not be converted to standard units as the volume of water used was not reported in this paper. Value initially reported as $8.234E7$ but based on later references to solubilities of "10^-7", this is believed to be a typo. Average of three replicates measured at atmospheric pressure.			

			EVALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	Medium	Data cannot be converted to standard units and therefore appropriateness cannot be verified, but is likely to be appropriate based on the data's inclusion in a peer-reviewed article.
Domain 2: Test Reliab	ility			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate.
Domain 3: Other				
	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qual	ity Determ	ination	Medium	

Study Citation: Lu, C. (2009). 83(2):168-173		Prediction of environmental properties in water-soil-air systems for phthalates. Bulletin of Environmental Contamination and Toxicology			
OECD Harmonized	Water Solubility				
Template:	•				
HERO ID:	807140				
		EXTRACTION			
Parameter		Data			
Water Solubility		9.9 mg/L			
CASRN and Test Material		84-74-2; di-n-butyl phthalate			
Confidentiality, Type, and Confidentiality, and	Guideline	none; QSAR; Quantitative Structure-Property relationship model for estimation of water solubility			
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, a	and Purity	NR; NR; NR Notes: DBP			
Temperature		not applicable			
System		QSPR model using the Lu index, which is based on the shortest distance matrix.			
pH		not applicable			
Results Details Method		Predictive model developed using Lu index: Log Sw = 8.2431 - 0.5718 (Lu)			
Standard Deviation Results		Not Reported			
Results Details		n = 34; correlation coefficient (R) = 0.9869; standard error (SE) = 0.44; leave-one-out cross validation correlation coefficient (Rsv) = 0.9709; corresponding standarderrors (scv) = 0.47			

			EVALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliab	ility			
	Metric 3:	Reliability/Unbiased	N/A	Rating of this factor is not applicable to this kind of information.
		(Method Objectivity)		
	Metric 4:	Reliability/Analytical Method	N/A	Rating of this factor is not applicable to this kind of information.
Domain 3: Other				
	Metric 5:	Databases	N/A	Rating of this factor is not applicable to this kind of information.
	Metric 6:	Models	Uninformative	The QSPR model failed the standard error threshold of <0.3 and is therefore rated unac ceptable.
Overall Qual	ity Determ	ination	Medium	

Study Citation: OECD Harmonized Template:	Mueller, M., Kl Water Solubility	· · ·	f methods predic	ting water solubility for organic compounds. Chemosphere 25(6):769-782.
HERO ID:	654554			
			EXTRACTIO	N
Parameter		Data		
Water Solubility		11.2 mg/L		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and O	Guideline	None; Calculation; Not reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR		
Temperature		Not reported		
System		Statistical estimation in relation to partiti	on coefficients.	
рН		Not reported		
Results Details Method		Not Reported		
Standard Deviation Results	5	Not Reported		
Results Details		Reported as 4.02E-5 mol/L		
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	Medium	Calculated data consistent with the subject chemical substance structural features.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased	High	The methodology for producing the information is designed to answer a specific ques-
		(Method Objectivity)		tion, and the methodology's objective is clear.
	Metric 4:	Reliability/Analytical Method	N/A	This matrix is not applicable to this calculated data.
Domain 3: Other				
	Metric 5:	Databases	N/A	This matrix is not applicable to this calculated data.
	Metric 6:	Models	High	The model had a defined, unambiguous endpoint and the model performance was known.
			TT* 1	
Overall Qualit	t v Determ i	nation	High	

Study Citation:	NIOSH, (1976)	. Occupational health guideline for di	butylphthalate.			
OECD Harmonized	Water Solubility	y				
Template:						
HERO ID:	10182525					
			EXTRACTION			
Parameter		Data				
Water Solubility		0.45 - g/100 g water				
CASRN and Test Material		NR; Dibutyl phthalate				
Confidentiality, Type, and	Guideline	No; Not specified; NR				
Solvent, Reactivity, Storag	e, and Stability	Not Reported; Not Reported; Not Reported; Not Reported				
Radiolabel, Source, State,	and Purity	Not Reported; Not Reported; Not Reported; Not Reported				
Temperature		20°C				
System		NR				
pН		NR				
Results Details Method		NR				
Standard Deviation Result	s	NR				
Results Details		Not Reported				
			EVALUATION			
Domain		Metric	Rating	Comments		
Domain 1: Substance						
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.		
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features.		

		8	
bility			
2			
Metric 3:	-	Medium	There is no indication that the methodology for producing the information was biased
	(Method Objectivity)		towards a particular product or outcome.
Metric 4:	Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's
	5 5		inclusion in a peer-reviewed/recognized database or other secondary source.
Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination		Medium	
	Metric 5: Metric 6:	Metric 3: Reliability/Unbiased (Method Objectivity) Metric 4: Reliability/Analytical Method Metric 5: Databases Metric 6: Models	Metric 3:Reliability/Unbiased (Method Objectivity)MediumMetric 4:Reliability/Analytical MethodMediumMetric 5:DatabasesMediumMetric 6:ModelsN/A

Study Citation: OECD Harmonized	NIOSH, (2007) Water Solubility	. NIOSH pocket guide to chemical hazard	ds.	
Template:	Water Boldonit	y		
HERO ID:	192177			
			EXTRACTIO	N
Parameter		Data		
Water Solubility		0.001 - g/100 ml		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and	Guideline	None; Experimental; Not reported		
Solvent, Reactivity, Storage		NR; NR; NR; NR		
Radiolabel, Source, State, a		NR; NR; NR; NR Notes: NR		
Temperature	·	77°F		
System		NR		
pH		NR		
Results Details Method		NR		
Standard Deviation Results		NR		
Results Details		Solubility in water at 77°F reported as %	by weight (g/100	ml)
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclu- sion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
Zoman 5. Oulor	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qualit	tv Determi	nation	High	

Study Citation: OECD Harmonized	NIOSH, (2019) Water Solubilit	 NIOSH pocket guide to chemical hazards 	: Dibutyl phthalate.	
Template: HERO ID:	8407729			
HERO ID:	8407729			
			EXTRACTION	
Parameter		Data		
Water Solubility		0.001 - %		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and	Guideline	No; Not specified; NR		
Solvent, Reactivity, Storag	e, and Stability	Not Reported; Not Reported; Not Reported	d; Not Reported	
Radiolabel, Source, State,	and Purity	Not Reported; Not Reported; Not Reported	d; Not Reported	
Temperature		NR		
System		NR		
pH		NR		
Results Details Method		NR		
Standard Deviation Results	8	NR		
Results Details		Not Reported		
			EVALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliabil	lity			
	Metric 3:	Reliability/Unbiased	N/A	Rating of this factor is not applicable to this kind of information.
		(Method Objectivity)		
	Metric 4:	Reliability/Analytical Method	N/A	Rating of this factor is not applicable to this kind of information.
Domain 3: Other				
	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

Medium

Study Citation: OECD Harmonized	NLM, (2024). H Water Solubility	PubChem: Hazardous Substance Data B	ank: Dibutyl phth	alate, 84-74-2.
Template:	Water Borubility	,		
HERO ID:	5926108			
			EXTRACTIO	N
Parameter		Data		
Water Solubility		11.2 mg/L		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and	Guideline	None; Experimental; Not reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR		
Temperature		20°C		
System		Not Reported		
pH		Not reported		
Results Details Method		Not Reported		
Standard Deviation Results	1	Not Reported		
Results Details		Not Reported		
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclu- sion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
2 chian 5. Other	Metric 5:	Databases	High	Data is from a publicly available database that provides references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
			. v. 1	
Overall Qualit	ty Determi	nation	High	

* Related References: Howard, P.H. et al. 1985. Environ Tox and Chem 4: 653-61.

Study Citation: OECD Harmonized Template:	Rumble, J. R. (2 Water Solubility	2018). Aqueous solubility and Henry's la y	w constants of or	ganic compounds. :5-148 - 5-177.		
HERO ID:	5932745					
			EXTRACTIO	N		
Parameter		Data				
Water Solubility		11 mg/L				
CASRN and Test Material		84-74-2; Dibutyl phthalate				
Confidentiality, Type, and Guideline		None; Experimental; Not reported				
Solvent, Reactivity, Storage, and Stability		NR; NR; NR; NR				
Radiolabel, Source, State, and Purity		NR; NR; NR; NR				
Temperature		25°C				
System		Not Reported				
pH		Not reported				
Results Details Method		Originally reported as 0.0112 g/kg H20, converted using CRC handbook's reported water density at 25 C.				
Standard Deviation Results		Not Reported				
Results Details		Not Reported				
			EVALUATIO	N		
Domain		Metric	Rating	Comments		
Domain 1: Substance						
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.		
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.		
Domain 2: Test Reliabil	ity					
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.		
	Metric 4:	(Method Objectivity) Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclu- sion in a peer-reviewed/recognized database or other secondary source.		
Domain 3: Other						
2 chian 5. Outer	Metric 5:	Databases	High	Data is from a peer-reviewed data collection.		
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.		
Overall Qualit	v Dotormi	nation	High			

Study Citation: OECD Harmonized Template:	SRC, (1983). Measurement of the water solubilities of phthalate esters (final report). Water Solubility					
HERO ID:	1316216					
		EXTRACTION				
Parameter		Data				
Water Solubility		11.2 - mg/L				
CASRN and Test Material		84-74-2; dibutyl phthalate				
Confidentiality, Type, and	Guideline	No; experimental; Measured test compound solubility in water by HPLC				
Solvent, Reactivity, Storage	e, and Stability	Not Reported; Not Reported; Not Reported; Not Reported				
Radiolabel, Source, State,	and Purity	Not Reported; Not Reported; Not Reported; Not Reported				
Temperature		25°C				
System		Samples shaken in distilled water, centrifuged and then analyzed				
pН		Not Reported				
Results Details Method		HPLC				
Standard Deviation Results		± 0.3				
Results Details		Value reported based on curvilinear equation. Previously reported value = 12.2 ± 0.2 , value obtained by auditor = 11.2 ± 0.3 (linear equation).				

			EVALUATIO	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features.
Domain 2: Test Relial	bility			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	High	The methodology for producing the information is designed to answer a specific ques- tion, and the methodology's objective is clear.
	Metric 4:	Reliability/Analytical Method	High	Data are obtained by accepted standard analytical methods, including, but not limited to OECD guidelines for physical-chemical properties or other developed standard.
Domain 3: Other				
	Metric 5:	Databases	N/A	Rating of this factor is not applicable to this kind of information.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Study Citation: OECD Harmonized Template:	U.S. EPA, (2019) Water Solubility	9). Chemistry Dashboard Information f	or Dibutyl Phthala	te. 84-74-2
HERO ID:	5926161			
			EXTRACTIO	N
Parameter		Data		
Water Solubility		11.2 mg/L		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and C		None; Experimental; Not reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	nd Purity	NR; NR; NR; NR		
Temperature		Not Reported		
System		Not Reported		
pH		Not reported		
Results Details Method		Not Reported		
Standard Deviation Results		Not Reported		
Results Details		Not Reported		
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliabili	ity			
	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
	Metric 4:	(Method Objectivity) Reliability (A polytical Method	Madium	towards a particular product or outcome.
	wieuric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclu- sion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	High	Data is from a publicly available database that provides references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qualit			High	

* Related References: PhysProp. Howard, PH et al. 1985.

Study Citation: OECD Harmonized	Elsevier, (2019) Flash Point). Reaxys: physical-chemical property da	ta for dibutyl pht	halate. CAS Registry Number: 84-74-2
Template:	Flash Point			
HERO ID:	5926413			
	5720115			
Parameter		Data	EXTRACTIO	N
Farameter		Data		
Flash Point		168 C		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and		None; Experimental; Not reported		
Solvent, Reactivity, Storag		NR; NR; NR		
Radiolabel, Source, State,		NR; NR; NR; NR		
System	2	Not Reported		
Standard Deviation Result	s	Not reported		
Results Details		Not Reported		
			EVALUATIO	Ň
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliabil	lity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclu- sion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	High	Data is from a secondary database with a references to the peer-reviewed original source.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quali	ty Dotormi	nation	High	

* Related References: Gasanov; Azizov; Alieva; Mamedov; Babaeva; Rustamov; Ayubov; Russian Journal of Applied Chemistry; vol. 81; nb. 4; (2008); p. 720 - 722

Study Citation:		. NIOSH pocket guide to chemical haz	ards.	
OECD Harmonized Template:	Flash Point			
HERO ID:	192177			
	1)2111			•
Da		Dete	EXTRACTIO	N
Parameter		Data		
Flash Point		315 - F		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and (Guideline	None; Experimental; closed cup		
Solvent, Reactivity, Storage		NR; NR; NR; NR		
Radiolabel, Source, State, a	-	NR; NR; NR; NR Notes: NR		
System		closed cup		
Standard Deviation Results	5	NR		
Results Details		NR		
			EVALUATIO	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	High	The methodology for producing the information is designed to answer a specific ques- tion, and the methodology's objective is clear.
	Metric 4:	(Method Objectivity) Reliability/Analytical Method	Medium	Analytical method likely to be appropriate based on the data's inclusion in a peer- reviewed/recognized database or other secondary source.
Domain 3: Other				
Domaili 5. Utici	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qualit	ty Determi	nation	High	

Study Citation:		PubChem: Hazardous Substance Data E	ank: Dibutyl phth	alate, 84-74-2.
OECD Harmonized Template:	Flash Point			
HERO ID:	5926108			
	3920108			
_			EXTRACTIO	N
Parameter		Data		
Flash Point		315 F		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and	Guideline	None; Experimental; Not reported		
Solvent, Reactivity, Storage		NR; NR; NR; NR		
Radiolabel, Source, State, a		NR; NR; NR; NR		
System		Closed cup		
Standard Deviation Results	5	Not reported		
Results Details		157°C		
			EVALUATIO	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliabil	lity			
	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
		(Method Objectivity)		towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclu- sion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qualit			High	Rading of this factor is not appreaded to this kind of information.

* Related References: National Fire Protection Association; Fire Protection Guide to Hazardous Materials. 14TH Edition, Quincy, MA 2010, p. 325-39

Study Citation: OECD Harmonized	O'Neil, M. J. (2 Flash Point	2013). Dibutyl phthalate. :550.		
Template:	Flash Folin			
HERO ID:	5348015			
	5510015			•
D		Dete	EXTRACTIO	N
Parameter		Data		
Flash Point		171 C		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
CASKN and Test Material Confidentiality, Type, and C	Juidalina	None; Experimental; Open cup		
Solvent, Reactivity, Storage		None; Experimental; Open cup NR; NR; NR; NR		
Radiolabel, Source, State, a		NR; NR; NR; NR NR; NR; NR		
System	ind i ulity	Not Reported		
System Standard Deviation Results		*		
Results Details		Not reported 171°C (340°F)		
Results Details		1/1 C (5+01)		
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliabil	ts.			
Domain 2. Test Kelldull	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
	meure 5.	(Method Objectivity)	wiedium	towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclu-
		· •		sion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	High	Data is from a recognized, peer-reviewed data collection.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
<u> </u>				
Overall Qualit	y Determi	nation	High	

Study Citation: OECD Harmonized	RSC, (2019). C Flash Point	ChemSpider: Dibutyl phthalate.		
Template:	1 10011 1 01110			
HERO ID:	5926136			
			EXTRACTION	
Parameter		Data		
Flash Point		157.2222 C		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and	Guideline	None; Experimental; Not reported		
Solvent, Reactivity, Storag	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State,	and Purity	NR; NR; NR; NR		
System		Not Reported		
Standard Deviation Results	5	Not reported		
Results Details		Not Reported		
			EVALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliabil	lity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other				
	Metric 5:	Databases	High	Data is from a publicly available database that provides references to the original, peer- reviewed source.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quali	tv Determi	nation	Medium	

* Related References: NIOSH

Study Citation: OECD Harmonized	RSC, (2019). C Flash Point	hemSpider: Dibutyl phthalate.		
Template:	i iasii i oint			
HERO ID:	5926136			
	5720150			
Parameter		Data	EXTRACTION	
		Data		
Flash Point		157 C		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and	Guideline	None; Experimental; Not reported		
Solvent, Reactivity, Storag		NR; NR; NR; NR		
Radiolabel, Source, State,	and Purity	NR; NR; NR; NR		
System		Not Reported		
Standard Deviation Results	8	Not reported		
Results Details		Not Reported		
			EVALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance			0	
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliabil	lity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other				
	Metric 5:	Databases	Medium	Data is from a publicly available secondary source with references to non-peer reviewed sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quali	tv Determi	nation	Medium	

* Related References: Oxford University Chemical Safety Data

Study Citation: OECD Harmonized	RSC, (2019). C Flash Point	hemSpider: Dibutyl phthalate.		
Template:	i iusii i oint			
HERO ID:	5926136			
			EXTRACTION	
Parameter		Data		
Flash Point		117 C		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and	Guideline	None; Experimental; Not reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR		
System		Not Reported		
Standard Deviation Results		Not reported		
Results Details		Not Reported		
			EVALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other				
	Metric 5:	Databases	Medium	Data is from a publicly available secondary source with references to non-peer reviewed sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quali	tv Determi	nation	Medium	

* Related References: Alfa Aesar

Study Citation: OECD Harmonized	RSC, (2019). C Flash Point	hemSpider: Dibutyl phthalate.		
Template:	1 Iasii 1 Olin			
HERO ID:	5926136			
			EXTRACTION	
Parameter		Data		
Flash Point		157 C		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and	Guideline	None; Experimental; Not reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR		
System		Not Reported		
Standard Deviation Results	8	Not reported		
Results Details		Not Reported		
			EVALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance			-	
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliabil	lity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other				
	Metric 5:	Databases	Medium	Data is from a publicly available secondary source with references to non-peer reviewed sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quali	tv Determi	nation	Medium	

* Related References: LabNetwork

Study Citation: OECD Harmonized	RSC, (2019). C Flash Point	hemSpider: Dibutyl phthalate.		
Template:	1 lash 1 olin			
HERO ID:	5926136			
			EXTRACTION	
Parameter		Data	EATRACTION	
Flash Point		171 C		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and	Guideline	None; Experimental; Not reported		
Solvent, Reactivity, Storage		NR; NR; NR; NR		
Radiolabel, Source, State, a		NR; NR; NR; NR		
System	-	Not Reported		
Standard Deviation Results	5	Not reported		
Results Details		Not Reported		
			EVALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other				
	Metric 5:	Databases	Medium	Data is from a publicly available secondary source with references to non-peer reviewed sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quali	tv Determi	nation	Medium	

* Related References: Alfa Aesar

Study Citation: OECD Harmonized	RSC, (2019). C Flash Point	ChemSpider: Dibutyl phthalate.		
Template:	Flash Point			
HERO ID:	5926136			
IIEKO ID:	5720150			
D			EXTRACTION	
Parameter		Data		
Flash Point		171 C		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and	Guideline	None; Experimental; Not reported		
Solvent, Reactivity, Storag	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State,	and Purity	NR; NR; NR; NR		
System		Not Reported		
Standard Deviation Results	s	Not reported		
Results Details		Not Reported		
			EVALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliabil	lity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other				
	Metric 5:	Databases	Medium	Data is from a publicly available database that provides references to the original, peer- reviewed source.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quali	tv Determi	nation	Medium	

* Related References: Sigma-Aldrich

Study Citation: OECD Harmonized	Rumble, J. R. (2 Flash Point	2018). Flammability of chemical substand	ces. :16-16 - 16-3	32.
Template:	1 Iasii 1 Oliit			
HERO ID:	6655446			
			EXTRACTIO	N
Parameter		Data	EATRACIIO	1
i ui uiiictoi		Dum		
Flash Point		157 C		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and C	Guideline	None; Experimental; Not reported		
Solvent, Reactivity, Storage		NR; NR; NR; NR		
Radiolabel, Source, State, a	•	NR; NR; NR; NR		
System	5	Not reported		
Standard Deviation Results		Not reported		
Results Details		Not Reported		
			EVALUATIO	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliabili	ity			
	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
		(Method Objectivity)		towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclu-
				sion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	High	Data is from a known data-collection, prepared by experts in the field.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qualit	y Determi	nation	High	

Study Citation:	NCBL (2020)	PubChem Compound Summary for CIE	3026 Dibutyl phthalate	N
OECD Harmonized	Autoflammabili	· ·	5020 Dibutyi phinanate	~
Template:		-5		
HERO ID:	6629198			
			EXTRACTION	
Parameter		Data		
Auto-flammability		757 F		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and C	Guideline	None; Experimental; Not specified		
Solvent, Reactivity, Storage		NR; NR; NR; NR		
Radiolabel, Source, State, a		NR; NR; NR; NR		
System	-	Not reported		
Standard Deviation Results		Not reported		
Results Details		402°C		
Results Value		757°F		
			EVALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other				
	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qualit	ty Determi	nation	Medium	

* Related References: National Fire Protection Association; Fire Protection Guide to Hazardous Materials. 14TH Edition, Quincy, MA 2010, p. 325-39

Study Citation:		PubChem Compound Summary for CIL	0 3026 Dibutyl phthalate	».
OECD Harmonized	Autoflammabili	ty		
Template: HERO ID:	6629198			
HERO ID:	0029198			
			EXTRACTION	
Parameter		Data		
Auto-flammability		402 C		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and C	Guideline	None; Experimental; Not specified		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	nd Purity	NR; NR; NR; NR		
System		Not reported		
Standard Deviation Results		Not reported		
Results Details		Not Reported		
Results Value		402°C		
			EVALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliabili	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other				
	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qualit	y Determi	nation	Medium	

* Related References: ILO International Chemical Safety Cards (ICSC)

Study Citation: OECD Harmonized	NIOSH, (1976). Autoflammabili	. Occupational health guideline for dibuty	lphthalate.	
Template: HERO ID:	10182525			
IIERO ID.	10102525			
Description		Dete	EXTRACTION	
Parameter		Data		
Auto-flammability		403 - C		
CASRN and Test Material		NR; Dibutyl phthalate		
Confidentiality, Type, and Guideline		No; not specified; NR		
Solvent, Reactivity, Storage, and Stability		Not Reported; Not Reported; Not Reporte	d; Not Reported	
Radiolabel, Source, State, a	and Purity	Not Reported; Not Reported; Not Reporte	d; Not Reported	
System		NR		
Standard Deviation Results		Not Reported		
Results Details		Also reported as 757 F		
Results Value		Not Reported		
			EVALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other				
Sommer S. Oulor	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qualit	t v Determi	nation	Medium	

Study Citation: OECD Harmonized		PubChem: Hazardous Substance Data Ba	nk: Dibutyl phtha	alate, 84-74-2.
Template:	Autoflammabili	ity		
HERO ID:	5926108			
	0,20100			N
Parameter		Data	EXTRACTIO	N
		Data		
Auto-flammability		757 F		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and C	Juideline	None; Experimental; Not specified		
Solvent, Reactivity, Storage		NR; NR; NR		
Radiolabel, Source, State, a		NR; NR; NR; NR		
System	2	Not reported		
Standard Deviation Results		Not reported		
Results Details		402°C		
Results Value		757°F		
			EVALUATIO	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliabili	ity			
	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
		(Method Objectivity)		towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclu-
				sion in a peer- reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	High	Data is from a secondary database with a reference to the original source.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
	_			
Overall Qualit	y Determi	nation	High	

* Related References: U.S. Coast Guard. 1999. Chemical Hazard Response Information System (CHRIS) - Hazardous Chemical Data. Commandant Instruction 16465.12C. Washington, D.C.: U.S. Government Printing Office.

Study Citation: OECD Harmonized		2018). Flammability of chemical substa	nces. :16-16 - 16-3	32.
Template:	Autoflammabil	ity		
HERO ID:	6655446			
	0055110			
D		Dete	EXTRACTIO	N
Parameter		Data		
Auto-flammability		402 C		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and	Guideline	None; not specified; Not reported		
Solvent, Reactivity, Storag		NR; NR; NR; NR		
Radiolabel, Source, State,		NR; NR; NR; NR		
System		Not reported		
Standard Deviation Results	3	Not reported		
Results Details		Not reported		
Results Value		Not Reported		
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliabil	itv			
	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
		(Method Objectivity)		towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclu- sion in a peer- reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	High	Data is from a known data-collection, prepared by experts in the field.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quali	tv Determi	nation	High	

PUBLIC RELEASE DRAFT May 2025 pKa

Dibutyl Phthalate

Study Citation: OECD Harmonized	OECD, (2016). pKa	Report On The Proposal For Classificatio	n And Labelling (C&L) Of Dibu	ıtyl Phthalate.
Template: HERO ID:	10172655			
			EXTRACTION	
Parameter		Data		
pK _a		3.21 -		
CASRN and Test Material	a	84-74-2; dibutyl phthalate		
Confidentiality, Type, and		No; not specified; NR		
Solvent, Reactivity, Storag	•	Not Reported; Not Reported; Not Reported	*	
Radiolabel, Source, State,	and Purity	Not Reported; Not Reported; Not Reported	ed; Not Reported	
Temperature		Not Reported		
System		Not Reported		
рН		Not Reported		
Results Details Method		Not Reported		
Standard Deviation Results	8	Not Reported		
Results Details		Not Reported		
			EVALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	Low	Data measured are not consistent with the subject chemical substance structural proper- ties, features or behaviors, or the structural features.
Domain 2: Test Reliabil	litv			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Low	The methodology indicates that method bias is likely.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other				
	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quali	ty Determi	nation	Uninformative	

* Related References: Citing ECHA, 2008. http://echa.europa.eu/documents/10162/13638/svhc_supdoc_dibutylphthalate_publication_en.pdf. Primary source not available for review.

Study Citation:	Chervonenkis, A. A., Chalykh, A. E. (2001). Correlation of molecular shape and structure with kinetic and physical-chemical properties of complex phthalate liquids. Journal of Molecular Liquids 93(1-3):43-46.
OECD Harmonized	Viscosity
Template:	
HERO ID:	1312213
	EXTRACTION
Parameter	Data

Viscosity	12.9
CASRN and Test Material	84-74-2; Dibutyl phthalate
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; Purchased and used without further purification
Temperature	30°C
Test Conditions	Kinematic viscosity measurements made using a calibrated Ostvald-Fenske glass capillary viscosimeter in distilled water
Standard Deviation Results	Accuracy estimated as $\pm 5\%$
Results Details	Kinematic viscosity data were converted to dynamic viscosity using measured density data interpolated at the same temperature

			EVALUATION		
Domain		Metric	Rating	Comments	
Domain 1: Substance	e				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.	
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.	
Domain 2: Test Relia	bility				
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biase towards a particular product or outcome.	
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate.	
Domain 3: Other					
	Metric 5:	Databases	N/A	Rating of this factor is not applicable to this kind of information.	
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.	

Study Citation:	Derjaguin, B. V., Bazaron, U. B., Lamazhapova, K. D., Tsidypov, B. D. (1992). Shear elasticity of low-viscosity liquids at low-frequencies. Progress in				
OECD Harmonized	OECD Harmonized Surface Science 40(1-4):462-465. Viscosity Viscosity				
Template:					
HERO ID:	5432953				
		EXTRACTION			
Parameter		Data			
Viscosity		16.66			
CASRN and Test Material		84-74-2; Dibutyl phthalate			
Confidentiality, Type, and	Guideline	None; Calculation; Not reported			
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR			
Radiolabel, Source, State, a	and Purity	NR; NR; NR			
Temperature		25°C			
Test Conditions		Calculated from $n = 2(Rs*Xs)/wp$; Where Rs is active part of the liquid, Xs is the reactive part of the shear impedance of the liquid, w (omega) is the cyclic frequency of the experiment, and p (rho) is the density.			
Standard Deviation Results	8	Not Reported			
Results Details		p = 1.041 g/cm^3; Rs = 4758 ohm cm^-2; Xs = 4604 ohm cm^-2; w = 40 mHz			

			EVALUATION		
Domain		Metric	Rating	Comments	
Domain 1: Substance	omain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.	
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.	
Domain 2: Test Reliab	oility				
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.	
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method wa used.	
Domain 3: Other					
	Metric 5:	Databases	N/A	Rating of this factor is not applicable to this kind of information.	
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.	

* Related References: McSkimin, H.T., P. Andreatch. 1967. J Acoust Sci Am 42, 248.

Study Citation:	00	· · · · · · · · ·	, Tsidypov, B. D. (1992	2). Shear elasticity of low-viscosity liquids at low-frequencies. Progress in
OECD Harmonized	Viscosity	e 40(1-4):462-465.		
Template:				
HERO ID:	5432953			
			EXTRACTION	
Parameter		Data		
Viscosity		16.37		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
		None; Experimental; Not reported		
Solvent, Reactivity, Storag	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State,	and Purity	NR; NR; NR; NR		
Temperature		25°C		
Test Conditions Not Reported		Not Reported		
Standard Deviation Results Not Reported		Not Reported		
Results Details		Known value of tabular viscosity		
			EVALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliabil	lity			
	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
		(Method Objectivity)		towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other				
	Metric 5:	Databases	N/A	Rating of this factor is not applicable to this kind of information.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quali	tv Determi	nation	Medium	

* Related References: McSkimin, H.T., P. Andreatch. 1967. J Acoust Soc Am 42, 248

Results Details

Study Citation:	Dufour, J., Jorat, L., Bondeau, A., Siblini, A., Noyel, G. (1994). Shear viscosity and dielectric relaxanon time of dibutyl phthalate down to glass transition temperature. Journal of Molecular Liquids 62(1-3):75-82.				
OECD Harmonized	Viscosity				
Template:					
HERO ID:	5432882				
		EXTRACTION			
Parameter		Data			
Viscosity		51900			
CASRN and Test Material		84-74-2; Dibutyl phthalate			
Confidentiality, Type, and	Guideline	None; Experimental; OECD Guideline 114: Viscosity of liquids			
Solvent, Reactivity, Storag	e, and Stability	NR; NR; NR			
Radiolabel, Source, State, and Purity		NR; NR; NR			
Temperature		-55.5°C			
Test Conditions		Measurements made with a visco penetrometer built in the laboratory.Purity not stated			
Standard Deviation Result	8	Not Reported			

(oC) (Pa.s)- 55.5 51.9- 57.6 71.2- 59.0 106- 74.0 7583- 82.9 4.87 10^5- 83.3 7.65 10^5- 84.2 8.57 10^5- 86.0 2.40 10^6- 91.0 1.15 10^8- 92.2 5.18 10^8- 92.7 7.27 10^8

			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliab	oility			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	High	The analytical method is non-standard but is expected to be appropriate.
Domain 3: Other				
	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qual	ity Determ	ination	High	

Study Citation: OECD Harmonized	Elsevier, (2019). Viscosity	Reaxys: physical-chemical property dat	a for dibutyl pht	halate. CAS Registry Number: 84-74-2		
Template:						
HERO ID:	5926413					
			EXTRACTIO	N		
Parameter		Data				
Viscosity		14 - 20.431				
CASRN and Test Material		84-74-2; Dibutyl phthalate				
Confidentiality, Type, and	Guideline	None; Experimental; Not reported				
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR				
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR				
Temperature		20-25°C				
Test Conditions		Not Reported				
Standard Deviation Results		Not Reported				
Results Details		or measured at unreported or non-standar	vere reported in Reaxys; 7 values were reported in the range of 14 to 20.431 at 20-25°C; 13 values were outside this range of or non-standard temperatures.			
			EVALUATIO	N		
Domain		Metric	Rating	Comments		
Domain 1: Substance						
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.		
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.		
Domain 2: Test Reliabil	ity					
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.		
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclu- sion in a peer-reviewed/recognized database or other secondary source.		
Domain 3: Other						
Domain 5. Outer	Metric 5:	Databases	High	Data is from a secondary database with a references to the peer-reviewed original source.		
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.		
Overall Qualit	tv Determi	nation	High			

* Related References: Data range determined from multiple primary sources in REAXYS.

Study Citation:	NLM, (2024). I	PubChem: Hazardous Substance Data Ba	ank: Dibutyl phtha	alate, 84-74-2.
OECD Harmonized	Viscosity			
Template:				
HERO ID:	5926108			
			EXTRACTIO	N
Parameter		Data		
Viscosity		20.3		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and	Guideline	None; Experimental; Not reported		
Solvent, Reactivity, Storage		NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR		
Temperature	·	20°C		
Test Conditions		Not Reported		
Standard Deviation Results	3	Not Reported		
Results Details		0.203 P		
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance			0	
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliabil	lity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclu- sion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
Domain 5. Outer	Metric 5:	Databases	High	Data is from a publicly available, peer-reviewed database that provides references to a recognized data collection.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qualit	ty Determi	nation	High	

* Related References: Lewis, R.J. Sr. 2007. Hawley's Condensed Chemical Dictionary 15th Edition. John Wiley & Sons, Inc. New York, NY. P. 398.

Study Citation: OECD Harmonized		2018). Viscosity of liquids. :6-234 - 6-23'	7.	
Template:	Viscosity			
HERO ID:	5932747			
			EXTRACTIO	N
Parameter		Data		
Viscosity		16.63		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and Guideline		None; Experimental; Not reported		
Solvent, Reactivity, Storage, and Stability		NR; NR; NR; NR		
Radiolabel, Source, State,		NR; NR; NR; NR		
Temperature		25°C		
Test Conditions		Not Reported		
Standard Deviation Results	8	Not Reported		
Results Details		483 cP at -25°C; 66.4 cP at 0 deg C; 6.47	7 cP at 50 deg C; 3.	5 cP at 75 deg C; 2.43 cP at 100 deg C
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliabil	lity			
	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
		(Method Objectivity)		towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclu- sion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	High	Data is from a peer-reviewed data collection.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quali	ty Dotormi	nation	High	

Study Citation: OECD Harmonized	Cacoullis, S., D Refractive Inde		of di-iso-octyl p	ohthalate and di-n-butyl phthalate. 30(1):55-59.			
Template:	5404626						
HERO ID:	5494636						
			EXTRACTIO	N			
Parameter		Data					
Refractive Index		1.266 - 1.646					
CASRN and Test Material		84-74-2; Dibutyl phthalate					
Confidentiality, Type, and	Guideline	None; Experimental; Not reported					
Solvent, Reactivity, Storag	e, and Stability	NR; NR; NR; NR					
Radiolabel, Source, State,	and Purity	NR; NR; NR; NR					
Temperature		Not reported					
System		Method combined three techniques to fin	d optical constant	ts: reflectometry, transmission and Kramers-Kronig dispersion analysis using an auto-			
Standard Deviation Results		mated reflectometer for the measurements Experimental uncertainty = 0.5%	8.				
Results Details	5)				
Results Details Methods		Measured at wavelengths from 2.0 to 16.0 um Not Reported					
Parameter		Not Reported					
Domain		Metric	EVALUATIO Rating	N Comments			
Domain 1: Substance							
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.			
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.			
Domain 2: Test Reliabil	lity						
	Metric 3:	Reliability/Unbiased (Method Objectivity)	High	The methodology for producing the information is designed to answer a specific ques- tion, and the methodology's objective is clear.			
	Metric 4:	Reliability/Analytical Method	High	Data are obtained by accepted standard analytical methods, including, but not limited to OECD guidelines for physical-chemical properties or other developed standard.			
Domain 3: Other							
	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.			
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.			
Overall Quali	ty Determi	nation	High				

Study Citation: OECD Harmonized Template:	Elsevier, (2019) Refractive Index		ta for dibutyl pht	halate. CAS Registry Number: 84-74-2			
HERO ID:	5926413						
			EXTRACTIO	N			
Parameter		Data					
Refractive Index		1.486 - 1.5011					
CASRN and Test Material		84-74-2; Dibutyl phthalate					
Confidentiality, Type, and C	luideline	None; Experimental; Not reported					
Solvent, Reactivity, Storage	, and Stability	NR; NR; NR; NR					
Radiolabel, Source, State, a	nd Purity	NR; NR; NR; NR					
Temperature		20-25°C					
System		Not Reported					
Standard Deviation Results		Not Reported					
Results Details			-25°C; 18 values were reported in Reaxys; 18 values were reported in the range of 1.486 to 1.5011 at 20-25°C.				
Results Details Methods		Not Reported					
Parameter		Not Reported					
			EVALUATIO	N			
Domain		Metric	Rating	Comments			
Domain 1: Substance							
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.			
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.			
Domain 2: Test Reliabili	ty						
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.			
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclu- sion in a peer-reviewed/recognized database or other secondary source.			
Domain 3: Other							
	Metric 5:	Databases	High	Data is from a secondary database with a references to the peer-reviewed original source.			
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.			
Overall Qualit	y Determi	nation	High				

* Related References: Data range determined from multiple primary sources in REAXYS.

Study Citation:	Liu, L., Shen, L., Yang, F., Han, F., Hu, P., Song, M. (2016). Determining Phthalic Acid Esters Using Terahertz Time Domain Spectroscopy. Journal of Applied Spectroscopy 83(4):603-609.					
OECD Harmonized						
Template:						
HERO ID:	3540862					
		EXTRACTION				
Parameter		Data				
Refractive Index		1.563				
CASRN and Test Material		84-74-2; Dibutyl phthalate				
Confidentiality, Type, and G	uidalina	None; Experimental; Not reported				
Solvent, Reactivity, Storage,		99.99% pure alcohol; NR; Room temperature; NR				
Radiolabel, Source, State, an		NR; Dr. Ehrenstorfer GmbH; Liquid; 99.0%				
Temperature	la i anty	24°C				
System		A split Ti:sapphire mode-lock laser pulse was used to trigger THz pulses that were collected and collimated using a pair of gold coated off-axis				
		parabolic mirrors and transmitted through the sample to be investigated.				
Standard Deviation Results		Not reported				
Results Details		The reference signal is a THz pulse transmitted through the empty crystal cell with a correction applied to account for the effect of the crystal cell absorbing THz waves. The experimental result is entered into a mathematical equation to calculate the refractive index.				
Results Details Methods		Not Reported				
Parameter		Not Reported				

			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance	;			
	Metric 1:	Representativeness	High	Data was measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Relia	bility			
	Metric 3:	Reliability/Unbiased	High	Methodology clearly stated.
		(Method Objectivity)		
	Metric 4:	Reliability/Analytical Method	High	Experimental procedures and analytical methods were clearly delineated.
Domain 3: Other				
	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qua	lity Determ	ination	High	

Study Citation: OECD Harmonized	NLM, (2024). I Refractive Inde	PubChem: Hazardous Substance Data Ba x	ank: Dibutyl phth	alate, 84-74-2.
Template: HERO ID:	5926108			
IIERO ID.	3920108			
Parameter		Data	EXTRACTIO	N
		Data		
Refractive Index		1.4900		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and	Guideline	None; Experimental; Not reported		
Solvent, Reactivity, Storag	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State,	and Purity	NR; NR; NR; NR		
Temperature		20°C		
System		Not Reported		
Standard Deviation Results	3	Not Reported		
Results Details		Not Reported		
Results Details Methods		Not Reported		
Parameter		Not Reported		
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance			0	
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Tast Paliabil	it.,			
Domain 2: Test Reliabil	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
	Metric 5.	(Method Objectivity)	Wiedium	towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclu- sion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	N		TT: 1	
	Metric 5:	Databases	High	Data is from a publicly available, peer-reviewed database that provides references to a recognized data collection.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quali	ty Determi	nation	High	

* Related References: O'Neil, M.J. (Ed.) 2013. The Merck Index - An Encyclopedia of Chemicals, Drugs, and Biologicals. Whitehouse Station, NJ: Merck and Co., Inc. 2006. p. 550

Study Citation: OECD Harmonized	O'Neil, M. J. (2 Refractive Inde	2013). Dibutyl phthalate. :550.		
	Kenacuve mue	2X		
Template: HERO ID:	5348015			
HERO ID:	5546015			
			EXTRACTIO	N
Parameter		Data		
Refractive Index		1.4900		
CASRN and Test Material				
	Cuidalina	84-74-2; Dibutyl phthalate		
Confidentiality, Type, and		None; Experimental; Not reported		
Solvent, Reactivity, Storag		NR; NR; NR; NR		
Radiolabel, Source, State,	and Purity	NR; NR; NR; NR 20°C		
Temperature				
System		Not Reported		
Standard Deviation Result	s	Not Reported		
Results Details		Not Reported		
Results Details Methods		Not Reported		
Parameter		Not Reported		
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliabi	lity			
	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
		(Method Objectivity)		towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclu- sion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	N		TT. 1	
	Metric 5:	Databases	High	Data is from a publicly available, peer-reviewed database that provides references to a recognized data collection.
	M (' (N 6 1 1	37/4	

Overall Quality Determination

Metric 6:

Models

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N/A

High

Rating of this factor is not applicable to this kind of information.

Study Citation: OECD Harmonized	RSC, (2019). C Refractive Inde	hemSpider: Dibutyl phthalate. x		
Template: HERO ID:	5926136			
			EXTRACTION	
Parameter		Data		
Refractive Index		1.492		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and	Guideline	None; Experimental; Not reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR		
Temperature		Not Reported		
System		Not Reported		
Standard Deviation Results	5	Not Reported		
Results Details		Not Reported		
Results Details Methods		Not Reported		
Parameter		Not Reported		
			EVALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other				
	Metric 5:	Databases	Medium	Data is from a publicly available secondary source with references to non-peer reviewed sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qualit	tv Dotormi	nation	Medium	

* Related References: Alfa Aesar

Study Citation:	Rumble, J. R. (2	2018). Dibutyl phthalate. :3-16.			
OECD Harmonized	Refractive Index				
Template:					
HERO ID:	5348244				
			EXTRACTION		
Parameter		Data			
Refractive Index		1.4911 -			
CASRN and Test Material		84-74-2; dibutyl phthalate			
Confidentiality, Type, and G	uideline	None; Experimental; NR			
Solvent, Reactivity, Storage,	, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, an	nd Purity	NR; NR; NR; NR Notes: NR			
Temperature	-	20			
System		NR			
Standard Deviation Results		NR			
Results Details		NR			
Results Details Methods		NR			
Parameter		NR			

			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliab	oility			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclu- sion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	High	Data is from a publicly available, peer-reviewed database that provides references to a recognized data collection.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qual	ity Determ	ination	High	

Study Citation:	Cousins, I., Mackay, D. (2000). Correlating the physical-chemical properties of phthalate esters using the 'three solubility' approach. Chemosphere 41(9):1389-1399.						
OECD Harmonized	Henry's Law	· · ·					
Template:							
HERO ID:	4159647						
			EXTRACTIO	N			
Parameter		Data					
Henry's Law		0.133 Pa m3/mol					
CASRN and Test Material		84-74-2; Di-n-butyl phthalate					
Confidentiality, Type, and	Guideline	None; QSAR; Not Reported					
Solvent, Reactivity, Storag		NR; NR; NR; NR					
Radiolabel, Source, State,		NR; NR; NR; NR Notes: DnBP					
Temperature	and Furity	25°C					
pH		Not reported					
System		*	structure-propert	y relationship; correlations between apparent-solubilities of liquid state compounds in			
~) ~		air and water, and molecular structures us					
Standard Deviation Results	s	Not reported	1				
Results Details		$\log Kaw = -4.27$					
Results Details Methods		Not applicable					
Results Details Methods		Not applicable	EVALUATIO	N			
Results Details Methods Domain		Not applicable Metric	EVALUATIO Rating	N Comments			
Domain	Metric 1:		Rating High	Comments Data are estimated for the subject chemical substance.			
Domain	Metric 1: Metric 2:	Metric	Rating	Comments			
Domain Domain 1: Substance	Metric 2:	Metric Representativeness	Rating High	Comments Data are estimated for the subject chemical substance.			
Domain Domain 1: Substance	Metric 2:	Metric Representativeness Appropriateness	Rating High N/A	Comments Data are estimated for the subject chemical substance. Rating of this factor is not applicable to this kind of information.			
Domain	Metric 2:	Metric Representativeness Appropriateness Reliability/Unbiased	Rating High	Comments Data are estimated for the subject chemical substance. Rating of this factor is not applicable to this kind of information. The methodology for producing the information is designed to answer a specific ques-			
Domain Domain 1: Substance	Metric 2:	Metric Representativeness Appropriateness	Rating High N/A	Comments Data are estimated for the subject chemical substance. Rating of this factor is not applicable to this kind of information.			
Domain Domain 1: Substance	Metric 2: lity Metric 3:	Metric Representativeness Appropriateness Reliability/Unbiased (Method Objectivity)	Rating High N/A High	Comments Data are estimated for the subject chemical substance. Rating of this factor is not applicable to this kind of information. The methodology for producing the information is designed to answer a specific question, and the methodology's objective is clear.			
Domain Domain 1: Substance Domain 2: Test Reliabil	Metric 2: lity Metric 3:	Metric Representativeness Appropriateness Reliability/Unbiased (Method Objectivity)	Rating High N/A High	Comments Data are estimated for the subject chemical substance. Rating of this factor is not applicable to this kind of information. The methodology for producing the information is designed to answer a specific question, and the methodology's objective is clear.			
Domain Domain 1: Substance	Metric 2: lity Metric 3:	Metric Representativeness Appropriateness Reliability/Unbiased (Method Objectivity)	Rating High N/A High	Comments Data are estimated for the subject chemical substance. Rating of this factor is not applicable to this kind of information. The methodology for producing the information is designed to answer a specific question, and the methodology's objective is clear.			

Overall Quality Determination

High

Study Citation: OECD Harmonized	EC/HC, (1994). Henry's Law	. Canadian environmental protection ac	t priority substances list	assessment report: Dibutyl phthalate.
Template:	Helliy S Law			
HERO ID:	1333071			
	1000071		EXTRACTION	
Parameter		Data	EATRACTION	
Henry's Law		<= 6.4 Pa·m3/mol		
CASRN and Test Material		84-74-2; dibutyl phthalate		
Confidentiality, Type, and Confidentiality, and	Guideline	no; not specified; Not Reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; liquid; NR		
Temperature		Not Reported		
pН		Not Reported		
System		Not Reported		
Standard Deviation Results	5	Not Reported		
Results Details		Not Reported		
Results Details Methods		Not Reported		
			EVALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
20main 5. Outor	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qualit	ty Determi	nation	Medium	

* Related References: Howard, P.H., "Large Production and Priority Pollutants," Handbook of Environmental Fate and Exposure Data for Organic Chemicals, Volume I, Lewis Publishers Inc., Chelsea, MI (1989).Montgomery, J.H. and L.M. Welkom, Groundwater Chemicals Desk Reference, Lewis Publishers Inc., Chelsea, MI (1990).McKone, T.E. and D.W. Layton, "Exposure and Risk Assessment of Toxic Waste in a Multimedia Context," 79th Annual Meeting of the Air Pollution Control Association, Minneapolis, MI, June 22-27, 1986, Vol. 1, 86-12.1, 16 pp. (1986).

Study Citation:	EC/HC, (2015). State of the science report: Phthalate substance grouping: Medium-chain phthalate esters: Chemical Abstracts Service Registry Numbers: 84-61-7; 84-64-0; 84-69-5; 523-31-9; 5334-09-8;16883-83-3; 27215-22-1; 27987-25-3; 68515-40-2; 71888-89-6.			
OECD Harmonized	84-61-7; 84-64 Henry's Law	-0; 84-69-5; 523-31-9; 5334-09-8;16883-8	33-3; 27215-22-1; 27987-25-3; 6	8515-40-2; /1888-89-6.
Template:	5			
HERO ID:	3688160			
			EXTRACTION	
Parameter		Data		
Henry's Law		0.124 Pa·m3 /mol		
CASRN and Test Materia	1	84-74-2; dibutyl phthalate		
Confidentiality, Type, and	Guideline	no; not specified; not specified		
Solvent, Reactivity, Storag		NR; NR; NR; NR		
Radiolabel, Source, State,		NR; NR; liquid; NR		
Temperature		Not Reported		
pН		Not Reported		
System		Not Reported		
Standard Deviation Result	ts	Not Reported		
Results Details		Not Reported		
Results Details Methods		Not Reported		
			EVALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliabi	ilitv			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other				
	Metric 5:	Databases	Uninformative	The data are from an unknown source or there are concerns regarding the source of the data.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quali	itv Determi	nation	Uninformative	

* Related References: reference is not indicated

Study Citation: OECD Harmonized	ECETOC, (198 Henry's Law	(35). An assessment of the occurrence and e	ffects of dialkyl ortho	p-phthalates in the environment.			
Template:	-						
HERO ID:	679967						
			EXTRACTION				
Parameter		Data					
Henry's Law		7.4E-5					
CASRN and Test Material		Not Reported; DBP					
Confidentiality, Type, and	Guideline	No; experimental; NR					
Solvent, Reactivity, Storag	ge, and Stability	Not Reported; Not Reported; Not Reporte	d; Not Reported				
Radiolabel, Source, State,	and Purity	Not Reported; Not Reported; Not Reporte	d; Not Reported				
Temperature		Not Reported					
рН		Not Reported					
System		in the primary source. Reported value ass	sumed to unitless (KH)	ater reported in this secondary source; more details are expected to be available. For the conversion $R = 8.205E-5$ atm.m3/K.mol and Temperature = 298.15 K. 5 K = 1.81 x 10-6 atm.m3/mol (SRC calculated).			
Standard Deviation Result	S	Not Reported					
Results Details		Not Reported	Not Reported				
Results Details Methods		Not Reported					
			EVALUATION				
Domain		Metric	Rating	Comments			
Domain 1: Substance							
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.			
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance physical/chemical properties or behaviors.			
Domain 2: Test Reliabi	lity						
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.			
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.			
Domain 3: Other							
	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation (peer-review unknown).			
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.			
Overall Quali			Medium				

* Related References: Citing Atlas, E., Velasco, A., Sullivan, K. and Giam, G.S. (1983). A radio-tracer study of air-water exchange of synthetic organic compounds. Chemosphere, 12(9-10), 1251. HERO ID1333633.

Study Citation: OECD Harmonized	ECETOC, (198 Henry's Law	5). An assessment of the occurrence and ef	ffects of dialkyl orth	o-phthalates in the environment.		
Template: HERO ID:	679967					
	079907					
Parameter		Data	EXTRACTION			
		2				
Henry's Law		1E-4				
CASRN and Test Material		Not Reported; DBP				
Confidentiality, Type, and	Guideline	No; experimental; Not Reported				
Solvent, Reactivity, Storag	e, and Stability	Not Reported; Not Reported; Not Reported	d; Not Reported			
Radiolabel, Source, State,	and Purity	Not Reported; Not Reported; Not Reported	d; Not Reported			
Temperature		Not Reported				
pH		Not Reported				
System		No details on the partition coefficient of D	BP between air and wa	ter reported in this secondary source; more details are expected to be available in		
		the primary source.				
Standard Deviation Results	8	Not Reported				
Results Details		Not Reported				
Results Details Methods		Not Reported				
			EVALUATION			
Domain		Metric	Rating	Comments		
Domain 1: Substance			6			
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.		
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance physical/chemical		
			8	properties or behaviors.		
Domain 2: Test Reliabil	ity					
2 small 2. Test Rendon	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased		
	moure of	(Method Objectivity)	mouraili	towards a particular product or outcome.		
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was		
				used.		
Domain 3: Other						
	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation (peer-review unknown).		
Domain 5. Other						
Domain 5. Other	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.		

* Related References: Citing Atlas, E., Velasco, A., Sullivan, K. and Giam, G.S. (1983). A radio-tracer study of air-water exchange of synthetic organic compounds. Chemosphere, 12(9-10), 1251. HERO ID1333633.

Study Citation: OECD Harmonized Template:	ECJRC, (2004) Henry's Law	. Summary Risk Assessment Report: D	ibutyl phthalate with add	lendum to the environment section — 2004.
HERO ID:	3661484			
			EXTRACTION	
Parameter		Data		
Henry's Law		0.27 Pa.m3/mol		
CASRN and Test Material		84-74-2; dibutyl phthalate		
Confidentiality, Type, and	Guideline	no; not specified; Not Reported		
Solvent, Reactivity, Storag	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State,	and Purity	NR; NR; liquid; >99% (w/w)		
Temperature		Not Reported		
pH		Not Reported		
System		Not Reported		
Standard Deviation Results	8	Not Reported		
Results Details		Not Reported		
Results Details Methods		Not Reported		
			EVALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quali	ty Determi	nation	Medium	

* Related References: specific reference not identified but include: Banerjee and Howard (1984), BASF (corporate data), BUA (1987), Hoyer and Pepperle (1958), Hüls (corporate data); Leyder and Boulanger (1983), Patty (1981)

Study Citation: OECD Harmonized	Elsevier, (2019) Henry's Law). Reaxys: physical-chemical property da	ta for dibutyl pht	halate. CAS Registry Number: 84-74-2
Template:	Henry's Law			
HERO ID:	5926413			
			EXTRACTIO	N
Parameter		Data	EATRACIIO	
		2		
Henry's Law		8.83E-7 atm-m3/mol		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and C	Buideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storage	, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	nd Purity	NR; NR; NR; NR		
Temperature		Not reported		
pН		Not Reported		
System		Not Reported		
Standard Deviation Results		Not Reported		
Results Details		Reported as 0.08947 Pa-m3/mol		
Results Details Methods		Not Reported		
			EVALUATIO	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliabili	tv			
2. Test Rendulli	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
		(Method Objectivity)	meanan	towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclu- sion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	High	Data is from a secondary database with a references to the peer-reviewed original source.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qualit	D ()		High	

* Related References: Staples, Charles A.; Peterson, Dennis R.; Parkerton, Thomas F.; Adams, William J.; Chemosphere; vol. 35; nb. 4; (1997); p. 667 - 749

-	EPA,, Danish (2011). Annex XV restriction report: Proposal for a restriction, version 2. Substance name: bis(2-ehtylhexyl)phthlate (DEHP), benzyl butyl phthalate (BBP), dibutyl phthalate (DBP), diisobutyl phthalate (DIBP).				
	Henry's Law				
Template:					
-	7265437				
	EXTRACTION				
Parameter	Data				
Henry's Law	0.27 - Pa. m3/mol				
CASRN and Test Material	84-74-2; NR				
Confidentiality, Type, and Guid	ideline No; Not specified; NR				
Solvent, Reactivity, Storage, an	*				
Radiolabel, Source, State, and	d Purity NR; NR; NR Notes: NR				
Temperature	NR				
pH	Not Reported				
System	NR				
Standard Deviation Results	Not Reported				
Results Details	Not Reported				
Results Details Methods	Not Reported				

			EVALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliab	oility			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other				
	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qual			N/A Medium	Rating of this factor is not applicable to this kind of information.

Study Citation:	Ishak, H., Stephan, J., Karam, R., Goutaudier, C., Mokbel, I., Saliba, C., Saab, J. (2016). Aqueous solubility, vapor pressure and octanol-water coefficient of two phthalate isomers dibutyl phthalate and di-isobutyl phthalate contaminants of recycled food packages. Fluid Phase Equilibria	-
	370.	
OECD Harmonized	Henry's Law	
Template:		
HERO ID:	3475635	
	EXTRACTION	
Parameter	Data	
Henry's Law	7.47 kPa	
CASRN and Test Material	84-74-2; Dibutyl phthalate	
Confidentiality, Type, and	uideline None; Calculation; Non-guideline	
Solvent, Reactivity, Storag	and Stability NR; NR; NR	
Radiolabel, Source, State,	d Purity NR; Sigma-Aldrich; NR; 99% Notes: Used without further purification	
Temperature	298.15 К	
pH	Not reported	
System	Not reported	
Standard Deviation Result	Not reported	
Results Details	Value reported as 7.47 kPa	
Results Details Methods	Calculated based on experimental vapor pressure (0.0047 Pa) and mole fraction of water solubility (6.350 x 10^-7).	

			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features (e.g., presence of certain functional groups) [and/or] other physical/chemical properties.
Domain 2: Test Reliabi	ility			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate, based on meth- ods used to derive calculation inputs.
Domain 3: Other				
	Metric 5:	Databases	High	Data is from a recognized, peer-reviewed data collection.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Study Citation:				Saab, J. (2016). Aqueous solubility, vapor pressure and octanol-water partition halate contaminants of recycled food packages. Fluid Phase Equilibria 427:362-		
OECD Harmonized	370. Henry's Law					
Template:	Henry's Law					
HERO ID:	3475635					
			EXTRACTIO	N		
Parameter		Data				
Henry's Law		5.44 Pa·m3/J				
CASRN and Test Material		84-74-2; Dibutyl phthalate				
Confidentiality, Type, and	Guideline	None; Calculation; Non-guideline				
Solvent, Reactivity, Storag		NR; NR; NR; NR				
Radiolabel, Source, State, and Purity NR;		NR; Sigma-Aldrich; NR; 99% Notes: Us	ed without further	purification		
Temperature	-	298.15 K				
pH		Not reported				
System		Air-water partition coefficient Kaw; calculated using Henry's law constant based on experimental vapor pressure (0.0047 Pa) and mole fraction of				
Standard Deviation Results water solubility (6.350 x 10^-7); WS: dynamic saturation method; VP: dynamic gas saturation method; NOT reported			ethod; VP: dynamic gas saturation method			
Results Details		Reported as 5.44 Pa·m3/J; Kaw = KhMw	/RT $ ho$ w (Kh: Henr	y's law constant; Mw: molar mass, R: gas constant, ρ w: density of water)		
Results Details Methods		experimental vapor pressure: HPLC-UV	and water solubilit	ty: HPLC-UV (using an internal calibration method with BBP)		
			EVALUATIO	N		
Domain		Metric	Rating	Comments		
Domain						
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.		
	Metric 1: Metric 2:	Representativeness Appropriateness	High High	Data are measured or estimated for the subject chemical substance. Measured data are consistent with the subject chemical substance structural features (e.g., presence of certain functional groups) [and/or] other physical/chemical properties.		
Domain 1: Substance	Metric 2:	1	U	Measured data are consistent with the subject chemical substance structural features		
Domain 1: Substance	Metric 2:	1	U	Measured data are consistent with the subject chemical substance structural features		
Domain 1: Substance	Metric 2:	Appropriateness Reliability/Unbiased	High	Measured data are consistent with the subject chemical substance structural features (e.g., presence of certain functional groups) [and/or] other physical/chemical properties. There is no indication that the methodology for producing the information was biased		
Domain 1: Substance Domain 2: Test Reliabil	Metric 2: lity Metric 3:	Appropriateness Reliability/Unbiased (Method Objectivity)	High	Measured data are consistent with the subject chemical substance structural features (e.g., presence of certain functional groups) [and/or] other physical/chemical properties. There is no indication that the methodology for producing the information was biased towards a particular product or outcome.		
Domain 1: Substance	Metric 2: lity Metric 3:	Appropriateness Reliability/Unbiased (Method Objectivity)	High	Measured data are consistent with the subject chemical substance structural features (e.g., presence of certain functional groups) [and/or] other physical/chemical properties. There is no indication that the methodology for producing the information was biased towards a particular product or outcome.		
Domain 1: Substance Domain 2: Test Reliabil Domain 3: Other	Metric 2: lity Metric 3: Metric 4:	Appropriateness Reliability/Unbiased (Method Objectivity) Reliability/Analytical Method	High Medium High	Measured data are consistent with the subject chemical substance structural features (e.g., presence of certain functional groups) [and/or] other physical/chemical properties. There is no indication that the methodology for producing the information was biased towards a particular product or outcome. The analytical methods are appropriate. The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and		

Study Citation:	Lu, C. (2009). 83(2):168-173.	Prediction of environmental properties in v	water-soil-air systen	ns for phthalates. Bulletin of Environmental Contamination and Toxicology
OECD Harmonized	85(2):108-175. Henry's Law			
Template:	,			
HERO ID:	807140			
			EXTRACTION	
Parameter		Data		
Henry's Law		Not Reported		
CASRN and Test Material		84-74-2; di-n-butyl phthalate		
Confidentiality, Type, and		none; QSAR; Quantitative Structure-Prope	erty relationship mode	l for estimation of log Kaw
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR Notes: DBP		
Temperature Not Reported				
pH	I Not Reported			
System		Kaw = $S(A)/Sw$ where $S(A)$ is the solubility	ty in air and Sw is the	solubility in water
Standard Deviation Results	6	Not Reported		
Results Details		Log Kaw= -4.23		
Results Details Methods		Not Reported		
			EVALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased	N/A	Rating of this factor is not applicable to this kind of information.
		(Method Objectivity)		
	Metric 4:	Reliability/Analytical Method	N/A	Rating of this factor is not applicable to this kind of information.
Domain 3: Other				
	Metric 5:	Databases	N/A	Rating of this factor is not applicable to this kind of information.
	Metric 6:	Models	Medium	Modeled data compared well to other data.

Overall Quality Determination

Medium

Study Citation: OECD Harmonized Template:	NLM, (2024). H Henry's Law	PubChem: Hazardous Substance Data B	ank: Dibutyl phth	alate, 84-74-2.
HERO ID:	5926108			
			EXTRACTIO	N
Parameter		Data		
Henry's Law		1.81E-6 atm-m3/mol		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and	Guideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR		
Temperature		25°C		
pH		Not Reported		
System		Not Reported		
Standard Deviation Results	3	Not Reported		
Results Details		Not Reported		
Results Details Methods		Not Reported		
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclu- sion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
2 shum 5. Otio	Metric 5:	Databases	High	Data is from a publicly available database that provides references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
				C I I I I I I I I I I I I I I I I I I I
Overall Quali	t v Determ i	nation	High	

* Related References: Atlas et al. 1983. Chemosphere 12: 1251-8.

Study Citation: OECD Harmonized	U.S. EPA, (2019 Henry's Law	9). Chemistry Dashboard Information for	or Dibutyl Phthala	te. 84-74-2
Template:	field y 5 East			
HERO ID:	5926161			
			EXTRACTIO	N
Parameter		Data		
Henry's Law		1.81E-6 atm-m3/mol		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and	Guideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storage		NR; NR; NR		
Radiolabel, Source, State, a		NR; NR; NR; NR		
Temperature	5	23°C		
pH		Not Reported		
System		Not Reported		
Standard Deviation Results		Not Reported		
Results Details		Not Reported		
Results Details Methods		Not Reported		
			EVALUATIO	Ň
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliabil	ity			
Domain 2. Test Kellauli	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
	metric J.	(Method Objectivity)	wicululli	towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclu- sion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
Domain 5: Other	Metric 5:	Databases	Uigh	Data is from a multiply available database that manides references to subject 1
	Metric 5: Metric 6:	Models	High N/A	Data is from a publicly available database that provides references to original sources. Rating of this factor is not applicable to this kind of information.
	wieure 0.	14104018	IN/A	Rating of uns factor is not applicable to this kind of information.
Overall Qualit	t y Determi	nation	High	

* Related References: PhysProp. Atlas, E. et al. 1983

Study Citation: OECD Harmonized	WHO, (1997). E Henry's Law	Environmental health criteria 189. Di-n-	-butyl phthalate. ENVIR	RONMENTAL HEALTH CRITERIA(0):GENEVA.
Template:	Them y 5 Eaw			
HERO ID:	1333030			
			EXTRACTION	
Parameter		Data		
Henry's Law		4.6x10-7 atm-m3/mol		
CASRN and Test Material		84-74-2; dibutyl phthalate		
Confidentiality, Type, and	Guideline	no; not specified; not reported		
Solvent, Reactivity, Storag	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State,	and Purity	NR; NR; liquid; NR		
Temperature		not reported		
pН		not reported		
System		not reported		
Standard Deviation Results	8	Not Reported		
Results Details		Not Reported		
Results Details Methods		Not Reported		
			EVALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quali	ty Determi	nation	Medium	

Study Citation: OECD Harmonized Template:	Elsevier, (2019) Dielectric Cons	. Reaxys: physical-chemical property datatant	ta for dibutyl pht	halate. CAS Registry Number: 84-74-2		
HERO ID:	5926413					
			EXTRACTIO	N		
Parameter		Data				
CASRN and Test Material		84-74-2; Dibutyl phthalate				
Confidentiality, Type, and	Guideline	None; Experimental; Not Reported				
Solvent, Reactivity, Storage, and Stability		NR; NR; NR; NR				
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR				
Dielectric Constant 6.36						
Temperature 25°C						
System		Not Reported				
Results Value		Not Reported				
Results Details		@ 25°C; 6 values were reported in Rea unreported or non-standard temperatures		lues was reported as 6.36 at 25 C; 5 values were outside this range or measured at		
			EVALUATIO	N		
Domain		Metric	Rating	Comments		
Domain 1: Substance						
	Metric 1:	Representativeness	High	Data are measured for the subject chemical substance.		
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.		
Domain 2: Test Reliabil	ity					
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.		
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclu- sion in a peer-reviewed/recognized database or other secondary source.		
Domain 3: Other						
	Metric 5:	Databases	High	Data is from a secondary database with a references to the peer-reviewed original source.		
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.		
Overall Quali	tv Determi	nation	High			

* Related References: French; Singer; Journal of the Chemical Society; (1956); p. 1424,1427

Study Citation:	Rumble, J. R. (2	2018). Dibutyl phthalate. :3-16.		
OECD Harmonized	Dielectric Cons			
Template:				
HERO ID:	5348244			
			EXTRACTIO	N
Parameter		Data		
CASRN and Test Material		84-74-2; Dibutyl phthalate		
Confidentiality, Type, and	Guideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storag	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State,		NR; NR; NR; NR		
Dielectric Constant	-	6.36		
Temperature		25°C		
System		Not Reported		
Results Value		Not Reported		
Results Details		Not Reported		
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliabil	lity			
2 ontain 2. Test Rendon	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	(Method Objectivity) Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclu- sion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
2 chian 5, outer	Metric 5:	Databases	High	Data is from a secondary database with a references to the peer-reviewed original source.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quali	ty Determi	nation	High	

Study Citation: OECD Harmonized	NIST, (2022). NIS UV and Visible At		butyl phthalate (84-74-2), Standard Reference	Database No. 69.		
Template: HERO ID:	10225264					
			EXTRACTION			
Parameter		Data				
CASRN and Test Material		84-74-2; Not Reported				
Confidentiality, Type, and C	Guideline	No; Experimental; NA				
Solvent, Reactivity, Storage		NR; NR; NR; NR				
Radiolabel, Source, State, a	nd Purity	NR; NR; NR				
Wave Length Range	-	Not Reported				
Light Source, Optical Path Cell Type	Length, and Optical	Instrument SF-4; Not Report	ed; Not Reported			
Test Concentration and Refe	erence Substance	Not Reported; Not Reported				
Solvent and Solvent pH		Not Reported; Not Reported				
Blank Control, Maxima, La Band Width	mbda Max, and Peak	Not Reported; Not Reported;	; ~278 (from spectrum); nm			
Measured Absolute Value a	nd Molar Coefficient	Not Reported; Not Reported				
Results Details		Not Reported				
			EVALUATION			
Domain		Metric	Rating	Comments		

Domain		Metric	Rating	Comments
Domain 1: Substance	2			
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Relia	bility			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

* Related References: Citing Fihtengolts, V.S., et al., Atlas of UV Absorption Spectra of Substances Used in Synthetic Rubber Manufacture, 1969, 163.

Study Citation: Lu, C. (2009). Prediction of environmental properties in water-soil-air systems for phthalates. Bulletin of Environmental Contamination 83(2):168-173.				s for phthalates. Bulletin of Environmental Contamination and Toxicology		
OECD Harmonized	Other Properties	8				
Template:						
HERO ID:	807140					
			EXTRACTION			
Parameter		Data				
CASRN and Test Material		84-74-2; di-n-butyl phthalate				
Confidentiality, Type, and Guideline		none; QSAR; Quantitative Structure-Property relationship model for estimation of log Koa				
Solvent, Reactivity, Storage, and Stability		NR; NR; NR				
Radiolabel, Source, State, and Purity		NR; NR; NR; NR Notes: DBP				
Results Value		Log Koa = 8.45				
Results Details	Koa = So/S(A) where So is solubility in octanol and S(A) is the solubility in air			olubility in air		
Results Remarks	Not Reported					
			EVALUATION			
Domain		Metric	Rating	Comments		
Domain 1: Substance						
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.		
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.		
Domain 2: Test Reliabil	ity					
	Metric 3:	Reliability/Unbiased	N/A	Rating of this factor is not applicable to this kind of information.		
		(Method Objectivity)		- ••		
	Metric 4:	Reliability/Analytical Method	N/A	Rating of this factor is not applicable to this kind of information.		
Domain 3: Other						
	Metric 5:	Databases	N/A	Rating of this factor is not applicable to this kind of information.		
	Metric 6:	Models	Medium	Modeled data compared well to other data.		

List of Abbreviations and Acronyms for Data Quality Evaluation and Extraction Tables

ASTMAmerican Society for Testing and MaterialsATSDRAgency for Toxic Substances and Disease RegistryatmAtmospheresatm ·m³/molAtmospheres - cubic meters per moleCCelsiusCASRNChemical Abstract Service registry numbercPCentipoiseCRCCRC Handbook of Chemistry and PhysicsDOEU.S. Department of EnergyECBEuropean Chemicals BureauEPAEnvironmental Protection AgencyFFahrenheitGCGas Chromatographyg/cm³Grams per cubic centimeterGLPGood Laboratory PracticeHLCHenry's Law ConstantHPVHigh Production VolumeHSDBHazard Substance Data BankILOInternational Labour OrganizationIPCSInternational Programme on Chemical SafetyIUCLIDInternational Programme on Chemical SafetyKoaOctanol-Air partition coefficientKowOctanol-Air partition coefficientKowOctanol-Air partition coefficientMolemmHgMillingrams per LitermolMolemmHgMillimeters of MercuryMSMass SpectrometryN/ANot ApplicableNICNASNational Industrial Chemicals Notification and Assessment SchemeNLMNational Library of MedicineNRNot ReportedOECDOrganisation for Economic Co-operation and DevelopmentPa (hPa)Pascals (hectopascals; 1 hPa = 100 Pa)PHNegati	Term	Definition		
atmAtmospheresatm om 3/molAtmospheres - cubic meters per moleCCelsiusCCelsiusCASRNChemical Abstract Service registry numbercPCentipoiseCRCCRC Handbook of Chemistry and PhysicsDOEU.S. Department of EnergyECBEuropean Chemicals BureauEPAEnvironmental Protection AgencyFFahrenheitGCGas Chromatographyg/cm³Grams per cubic centimeterGLPGood Laboratory PracticeHLCHenry's Law ConstantHPVHigh Production VolumeHSDBHazard Substance Data BankILOInternational Programme on Chemical SafetyIUCLIDInternational Uniform Chemical Information DatabaseKKelvinKoaOctanol-Air partition coefficientKowOctanol-Air partition coefficientMSMass SpectrometryN/ANot ApplicableNICNASNational Library of MedicineNKNot ApplicableNICNASNational Library of MedicineNRNot ReportedOEDDOrganisation fre Economic Co-operation and DevelopmentPa (hPa)Pascals (hectopascals; 1 hPa = 100 Pa)PHNegative base 10 Log of Acid Dissociation Constant (Ka)RIVMNational Institute for Public Health and the Environment (Dutch: Ri-	ASTM	American Society for Testing and Materials		
atm · m³/molAtmospheres - cubic meters per moleCCelsiusCASRNChemical Abstract Service registry numberePCentipoiseCRCCRC Handbook of Chemistry and PhysicsDOEU.S. Department of EnergyECBEuropean Chemicals BureauEPAEnvironmental Protection AgencyFFahrenheitGCGas Chromatographyg/cm³Grams per cubic centimeterGLPGood Laboratory PracticeHLCHenry's Law ConstantHPVHigh Production VolumeHSDBHazard Substance Data BankILOInternational Labour OrganizationIPCSInternational CoefficientKoaOctanol-Air partition coefficientKoaOctanol-Air partition coefficientMolemagLmgLMilligrams per LitermolMolemmHgMilligrams per LiterMANot ApplicableN/ANot ApplicableN/ANot ApplicableN/ANot ApplicableN/ANot ReportedOECDOrganisation for Economic Co-operation and Assessment SchemeNRNot ReportedOECDOrganisation for Economic Co-operation and DevelopmentPac (hPa)Pascals (hectopascals; 1 hPa = 100 Pa)pHNegative base 10 Log of Acid Dissociation Constant (Ka)RIVMNational Institute for Public Health and the Environment (Dutch: Ri-	ATSDR	Agency for Toxic Substances and Disease Registry		
CCelsiusCASRNChemical Abstract Service registry numbercPCentipoiseCRCCRC Handbook of Chemistry and PhysicsDOEU.S. Department of EnergyECBEuropean Chemicals BureauEPAEnvironmental Protection AgencyFFahrenheitGCGas Chromatographyg/cm³Grams per cubic centimeterGLPGood Laboratory PracticeHLCHenry's Law ConstantHPVHigh Production VolumeHSDBHazard Substance Data BankILOInternational Labour OrganizationIPCSInternational Uniform Chemical Information DatabaseKKelvinKoaOctanol-Air partition coefficientKowOctanol-Water partition coefficientmg/LMilligrams per LitermolMolemmHgMilligrams per LitermolMolemtHgMilligrams of MercuryMSNass SpectrometryN/ANot ApplicableNICNASNational Industrial Chemicals Notification and Assessment SchemeNLMNational Library of MedicineNRNot ReportedOECDOrganisation for Economic Co-operation and DevelopmentPac (hPa)Pascals (hectopascals; 1 hPa = 100 Pa)pHNegative base 10 Log of Acid Dissociation Constant (Ka)RIVMNational Institute for Public Health and the Environment (Dutch: Ri-	atm	Atmospheres		
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PUBLIC RELEASE DRAFT May 2025

List of Abbreviations and Acronyms for Data Quality Evaluation and Extraction Tables

PUBLIC N

Term Definition RSC Royal Society of Chemistry RT Retention Time Screening Information Dataset SIDs VP Vapor Pressure US or USA United States of America UV (UV-Vis) Ultra Violet (UV-Visible) WHO World Health Organization

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