

Phthalic acid, 2,4-dichlorobenzyl tridecyl ester

Inchi: InChI=1S/C28H36Cl2O4/c1-2-3-4-5-6-7-8-9-10-11-14-19-33-27(31)24-15-12-13-16-25(26)
InchiKey: PTXCKIVRSGPSGW-UHFFFAOYSA-N
Formula: C28H36Cl2O4
SMILES: CCCCCCCCCCCCCOC(=O)c1ccccc1C(=O)OCc1ccc(Cl)cc1Cl
Mol. weight [g/mol]: 507.49

Physical Properties

Property code	Value	Unit	Source
gf	-110.89	kJ/mol	Joback Method
hf	-703.68	kJ/mol	Joback Method
hfus	69.16	kJ/mol	Joback Method
hvap	111.54	kJ/mol	Joback Method
log10ws	-10.46		Crippen Method
logp	8.818		Crippen Method
mvol	397.220	ml/mol	McGowan Method
pc	934.63	kPa	Joback Method
rinpol	3492.00		NIST Webbook
rinpol	3492.00		NIST Webbook
tb	1135.78	K	Joback Method
tc	1392.82	K	Joback Method
tf	699.88	K	Joback Method
vc	1.534	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1298.93	J/molxK	1135.78	Joback Method
cpg	1340.93	J/molxK	1349.98	Joback Method
cpg	1335.66	J/molxK	1307.14	Joback Method
cpg	1328.92	J/molxK	1264.30	Joback Method
cpg	1320.61	J/molxK	1221.46	Joback Method
cpg	1310.64	J/molxK	1178.62	Joback Method
cpg	1344.81	J/molxK	1392.82	Joback Method
dvisc	0.0000128	Paxs	1135.78	Joback Method

dvisc	0.0000163	Paxs	1063.13	Joback Method
dvisc	0.0000213	Paxs	990.48	Joback Method
dvisc	0.0000292	Paxs	917.83	Joback Method
dvisc	0.0000423	Paxs	845.18	Joback Method
dvisc	0.0000655	Paxs	772.53	Joback Method
dvisc	0.0001112	Paxs	699.88	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U382568&Units=SI

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/72-826-5/Phthalic-acid-2-4-dichlorobenzyl-tridecyl-ester.pdf>

Generated by Cheméo on 2024-05-02 19:40:38.040402216 +0000 UTC m=+16968086.960979531.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.