

2,4-dichlorobenzyl dodecyl ether

Inchi:	InChI=1S/C19H30Cl2O/c1-2-3-4-5-6-7-8-9-10-11-14-22-16-17-12-13-18(20)15-19(17)21
InchiKey:	ARUQYUYQEGAQHW-UHFFFAOYSA-N
Formula:	C19H30Cl2O
SMILES:	CCCCCCCCCCCCOCc1ccc(Cl)cc1Cl
Mol. weight [g/mol]:	345.35

Physical Properties

Property code	Value	Unit	Source
gf	73.39	kJ/mol	Joback Method
hf	-385.60	kJ/mol	Joback Method
hfus	47.81	kJ/mol	Joback Method
hvap	72.67	kJ/mol	Joback Method
log10ws	-7.83		Crippen Method
logp	7.431		Crippen Method
mcvol	285.160	ml/mol	McGowan Method
pc	1246.85	kPa	Joback Method
tb	768.04	K	Joback Method
tc	962.18	K	Joback Method
tf	437.42	K	Joback Method
vc	1.107	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	806.86	J/molxK	768.04	Joback Method
cpg	883.58	J/molxK	929.82	Joback Method
cpg	870.07	J/molxK	897.47	Joback Method
cpg	855.67	J/molxK	865.11	Joback Method
cpg	840.36	J/molxK	832.75	Joback Method
cpg	824.10	J/molxK	800.40	Joback Method
cpg	896.24	J/molxK	962.18	Joback Method
dvisc	0.0000677	Paxs	768.04	Joback Method
dvisc	0.0000871	Paxs	712.94	Joback Method
dvisc	0.0001167	Paxs	657.83	Joback Method

dvisc	0.0001651	Paxs	602.73	Joback Method
dvisc	0.0002505	Paxs	547.63	Joback Method
dvisc	0.0004170	Paxs	492.52	Joback Method
dvisc	0.0007894	Paxs	437.42	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=R32268&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
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/96-417-3/2-4-dichlorobenzyl-dodecyl-ether.pdf>

Generated by Cheméo on 2024-04-27 15:25:25.838521061 +0000 UTC m=+16520774.759098377.

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