

2,6-Dichlorobenzyl ether

Other names:	Ether, bis(2,6-dichlorobenzyl) Bis(2,6-dichlorobenzyl)ether 2,2',4,4'-Tetrachlorodibenzyl ether
Inchi:	InChI=1S/C14H10Cl4O/c15-11-3-1-9(13(17)5-11)7-19-8-10-2-4-12(16)6-14(10)18/h1-6H
InchiKey:	NWYHVMDKERUNLM-UHFFFAOYSA-N
Formula:	C14H10Cl4O
SMILES:	Clc1ccc(COCc2ccc(Cl)cc2Cl)c(Cl)c1
Mol. weight [g/mol]:	336.04
CAS:	73927-56-7

Physical Properties

Property code	Value	Unit	Source
gf	100.58	kJ/mol	Joback Method
hf	-100.29	kJ/mol	Joback Method
hfus	36.52	kJ/mol	Joback Method
hvap	73.91	kJ/mol	Joback Method
log10ws	-6.71		Crippen Method
logp	6.017		Crippen Method
mcvol	215.430	ml/mol	McGowan Method
pc	2214.53	kPa	Joback Method
tb	765.14	K	Joback Method
tc	1014.97	K	Joback Method
tf	492.37	K	Joback Method
vc	0.818	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	491.92	J/mol×K	765.14	Joback Method
cpg	503.37	J/mol×K	806.78	Joback Method
cpg	513.82	J/mol×K	848.42	Joback Method
cpg	523.30	J/mol×K	890.05	Joback Method
cpg	531.85	J/mol×K	931.69	Joback Method
cpg	539.51	J/mol×K	973.33	Joback Method

cpg	546.32	J/mol×K	1014.97	Joback Method
dvisc	0.0005543	Paxs	492.37	Joback Method
dvisc	0.0003736	Paxs	537.83	Joback Method
dvisc	0.0002678	Paxs	583.29	Joback Method
dvisc	0.0002014	Paxs	628.76	Joback Method
dvisc	0.0001574	Paxs	674.22	Joback Method
dvisc	0.0001269	Paxs	719.68	Joback Method
dvisc	0.0001050	Paxs	765.14	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C73927567&Units=SI
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

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

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