

1-(Chloromethyl)-4-[4-(chloromethyl)phenoxy]benzene

Inchi:	InChI=1S/C14H12Cl2O/c15-9-11-1-5-13(6-2-11)17-14-7-3-12(10-16)4-8-14/h1-8H,9-10H
InchiKey:	ONXYNIGRSCRZNU-UHFFFAOYSA-N
Formula:	C14H12Cl2O
SMILES:	ClCc1ccc(Oc2ccc(CCl)cc2)cc1
Mol. weight [g/mol]:	267.15
CAS:	2362-18-7

Physical Properties

Property code	Value	Unit	Source
gf	143.70	kJ/mol	Joback Method
hf	-45.87	kJ/mol	Joback Method
hfus	28.90	kJ/mol	Joback Method
hvap	63.81	kJ/mol	Joback Method
log10ws	-5.17		Crippen Method
logp	4.957		Crippen Method
mcvol	190.950	ml/mol	McGowan Method
pc	2448.32	kPa	Joback Method
tb	680.32	K	Joback Method
tc	924.23	K	Joback Method
tf	407.49	K	Joback Method
vc	0.720	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	449.50	J/molxK	680.32	Joback Method
cpg	463.68	J/molxK	720.97	Joback Method
cpg	476.74	J/molxK	761.62	Joback Method
cpg	488.75	J/molxK	802.28	Joback Method
cpg	499.73	J/molxK	842.93	Joback Method
cpg	509.75	J/molxK	883.58	Joback Method
cpg	518.85	J/molxK	924.23	Joback Method
dvisc	0.0009640	Paxs	407.49	Joback Method
dvisc	0.0005807	Paxs	452.96	Joback Method

dvisc	0.0003837	Paxs	498.43	Joback Method
dvisc	0.0002717	Paxs	543.90	Joback Method
dvisc	0.0002029	Paxs	589.38	Joback Method
dvisc	0.0001580	Paxs	634.85	Joback Method
dvisc	0.0001272	Paxs	680.32	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2362187&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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