1,2,4-Trichloro-5-(decyloxy)benzene

Inchi: InChI=1S/C16H23Cl3O/c1-2-3-4-5-6-7-8-9-10-20-16-12-14(18)13(17)11-15(16)19/h11-12
InchiKey: FBFDILWRMGPTJU-UHFFFAOYSA-N
Formula: C16H23Cl3O
SMILES: CCCCCCCCCCOc1cc(Cl)c(Cl)cc1Cl
Mol. weight [g/mol]: 337.71
CAS: 116401-38-8

Physical Properties

Property code	Value	Unit	Source
gf	26.57	kJ/mol	Joback Method
hf	-350.89	kJ/mol	Joback Method
hfus	43.85	kJ/mol	Joback Method
hvap	71.04	kJ/mol	Joback Method
log10ws	-7.41		Crippen Method
logp	7.166		Crippen Method
mcvol	255.130	ml/mol	McGowan Method
pc	1483.85	kPa	Joback Method
tb	741.81	K	Joback Method
tc	944.15	K	Joback Method
tf	446.05	K	Joback Method
vc	0.989	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	665.96	J/mol×K	741.81	Joback Method
cpg	681.10	J/mol×K	775.53	Joback Method
cpg	695.35	J/mol×K	809.26	Joback Method
cpg	708.75	J/mol×K	842.98	Joback Method
cpg	721.30	J/mol×K	876.70	Joback Method
cpg	733.04	J/mol×K	910.43	Joback Method
cpg	743.99	J/mol×K	944.15	Joback Method
dvisc	0.0007144	Pa×s	446.05	Joback Method
dvisc	0.0004245	Pa×s	495.34	Joback Method

dvisc	0.0002772	Pa×s	544.64	Joback Method
dvisc	0.0001943	Pa×s	593.93	Joback Method
dvisc	0.0001438	Pa×s	643.22	Joback Method
dvisc	0.0001111	Pa×s	692.52	Joback Method
dvisc	0.0000888	Pa×s	741.81	Joback Method

Sources

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=C116401388&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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