Alpha,alpha,alpha,alpha',alpha'-pentachloro-o-xyl

Other names: 1-(dichloromethyl)-2-(trichloromethyl)benzene
Inchi: InChI=1S/C8H5Cl5/c9-7(10)5-3-1-2-4-6(5)8(11,12)13/h1-4,7H
InchiKey: UXMNSLMVCBBGCW-UHFFFAOYSA-N
Formula: C8H5Cl5
SMILES: ClC(Cl)c1ccccc1C(Cl)(Cl)Cl
Mol. weight [g/mol]: 278.39
CAS: 2741-57-3

Physical Properties

Property code	Value	Unit	Source
gf	60.01	kJ/mol	Joback Method
hf	-76.12	kJ/mol	Joback Method
hfus	20.18	kJ/mol	Joback Method
hvap	56.58	kJ/mol	Joback Method
log10ws	-5.12		Crippen Method
logp	4.989		Crippen Method
mcvol	161.020	ml/mol	McGowan Method
pc	2992.59	kPa	Joback Method
tb	597.58	K	Joback Method
tc	856.82	K	Joback Method
tf	355.88	K	Joback Method
vc	0.604	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	296.92	J/mol×K	597.58	Joback Method
cpg	334.24	J/mol×K	813.62	Joback Method
cpg	328.38	J/mol×K	770.41	Joback Method
cpg	321.81	J/mol×K	727.20	Joback Method
cpg	314.44	J/mol×K	683.99	Joback Method
cpg	306.18	J/mol×K	640.79	Joback Method
cpg	339.50	J/mol×K	856.82	Joback Method
dvisc	0.0002069	Pa×s	597.58	Joback Method

dvisc	0.0002693	Pa×s	557.30	Joback Method
dvisc	0.0003653	Pa×s	517.01	Joback Method
dvisc	0.0005217	Pa×s	476.73	Joback Method
dvisc	0.0007958	Pa×s	436.45	Joback Method
dvisc	0.0013227	Pa×s	396.16	Joback Method
dvisc	0.0024665	Pa×s	355.88	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=C2741573&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