Benzene, 1,3-dichloro-2-(dichloromethyl)-

Other names:	Toluene, «alpha»,«alpha»2,6-tetrachloro- «alpha»,«alpha»,2,6-Tetrachlorotoluene 2,6-Dichlorobenzal chloride 2,6-Dichlorobenzylidene chloride Benzene, 2,6-dichloro-1-(dichloromethyl)
Inchi:	InChI=1S/C7H4Cl4/c8-4-2-1-3-5(9)6(4)7(10)11/h1-3,7H
InchiKey:	QQPXXHAEIGVZKQ-UHFFFAOYSA-N
Formula:	C7H4Cl4
SMILES:	Clc1cccc(Cl)c1C(Cl)Cl
Mol. weight [g/mol]:	229.92
CAS:	81-19-6

Physical Properties

Property code	Value	Unit	Source
gf	51.05	kJ/mol	Joback Method
hf	-42.46	kJ/mol	Joback Method
hfus	20.41	kJ/mol	Joback Method
hvap	51.93	kJ/mol	Joback Method
log10ws	-4.49		Crippen Method
logp	4.470		Crippen Method
mcvol	134.690	ml/mol	McGowan Method
pc	3345.11	kPa	Joback Method
tb	545.48	K	Joback Method
tc	790.96	K	Joback Method
tf	324.79	K	Joback Method
vc	0.509	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	228.70	J/mol×K	545.48	Joback Method
cpg	236.90	J/mol×K	586.39	Joback Method
cpg	244.46	J/mol×K	627.31	Joback Method
cpg	251.40	J/mol×K	668.22	Joback Method

cpg	257.78	J/mol×K	709.13	Joback Method
cpg	263.61	J/mol×K	750.05	Joback Method
cpg	268.93	J/mol×K	790.96	Joback Method
dvisc	0.0020204	Pa×s	324.79	Joback Method
dvisc	0.0012150	Pa×s	361.57	Joback Method
dvisc	0.0008027	Pa×s	398.35	Joback Method
dvisc	0.0005687	Pa×s	435.13	Joback Method
dvisc	0.0004252	Pa×s	471.92	Joback Method
dvisc	0.0003316	Pa×s	508.70	Joback Method
dvisc	0.0002674	Pa×s	545.48	Joback Method

Sources

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=C81196&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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