Benzene, 1,4-bis(trichloromethyl)-

Other names:	p-Xylene, «alpha»,«alpha»,«alpha»,«alpha»',«alpha»',«alpha»'-hexachloro- «alpha»,«alpha»,«alpha»,«alpha»',«alpha»',«alpha»'-Hexachloro-p-xylene «alpha»,«alpha»'-Hexachloro-p-xylene «omega»-Hexachloro-p-xylene «omega»,«omega»'-Hexachloro-p-xylene p-Bis(perchloromethyl)benzene p-Bis(trichloromethyl)benzene Bitriben Chloksil Chloxil Chloxyl Cloxil Hetol Hexachloroparaxylol Khloxil 1,4-Bis(trichloromethyl)benzene 1,4-Di(trichloromethyl)benzene p-Xylene hexachloride p-Xylene, «alpha»,«alpha»'-hexachloro- Hexachloroxylene Hexichol Khloksil 2,2-Hexachloro-p-xylene alpha,alpha,alpha,alpha',alpha',alpha'-Hexachloro-p-xylene NSC 41883
Inchi:	InChI=1S/C8H4Cl6/c9-7(10,11)5-1-2-6(4-3-5)8(12,13)14/h1-4H
InchiKey:	OTEKOJQFKOIXMU-UHFFFAOYSA-N
Formula:	C8H4Cl6
SMILES:	ClC(Cl)(Cl)c1ccc(C(Cl)(Cl)Cl)cc1
Mol. weight [g/mol]:	312.83
CAS:	68-36-0

Physical Properties

Property code	Value	Unit	Source
gf	53.36	kJ/mol	Joback Method
hf	-95.33	kJ/mol	Joback Method

hfus	20.48	kJ/mol	Joback Method
hvap	60.06	kJ/mol	Joback Method
log10ws	-5.48		Crippen Method
logp	5.340		Crippen Method
mcvol	173.260	ml/mol	McGowan Method
pc	2909.25	kPa	Joback Method
tb	632.22	K	Joback Method
tc	905.77	K	Joback Method
tf	403.22	K	Joback Method
vc	0.647	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	319.65	J/mol×K	632.22	Joback Method
cpg	350.94	J/mol×K	860.18	Joback Method
cpg	346.26	J/mol×K	814.59	Joback Method
cpg	340.96	J/mol×K	769.00	Joback Method
cpg	334.86	J/mol×K	723.40	Joback Method
cpg	327.81	J/mol×K	677.81	Joback Method
cpg	355.15	J/mol×K	905.77	Joback Method
dvisc	0.0001718	Pa×s	632.22	Joback Method
dvisc	0.0002227	Pa×s	594.05	Joback Method
dvisc	0.0002992	Pa×s	555.89	Joback Method
dvisc	0.0004199	Pa×s	517.72	Joback Method
dvisc	0.0006219	Pa×s	479.55	Joback Method
dvisc	0.0009858	Pa×s	441.39	Joback Method
dvisc	0.0017051	Pa×s	403.22	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C68360&Units=SI

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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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