Dibenzodioxin, 1,2,3,4-tetrabromo-, 7,8-dichloro-

Other names: 1,2,3,4-tetrabromo-7,8-dichlorodibenzo-p-dioxin
Inchi: InChI=1S/C12H2Br4Cl2O2/c13-7-8(14)10(16)12-11(9(7)15)19-5-1-3(17)4(18)2-6(5)20-12
InchiKey: CYWXRVGVVHTRNJ-UHFFFAOYSA-N
Formula: C12H2Br4Cl2O2
SMILES: Clc1cc2c(cc1Cl)Oc1c(Br)c(Br)c(Br)c(Br)c1O2
Mol. weight [g/mol]: 568.66

Physical Properties

Property code	Value	Unit	Source
gf	139.68	kJ/mol	Joback Method
hf	-0.57	kJ/mol	Joback Method
hfus	56.46	kJ/mol	Joback Method
hvap	95.73	kJ/mol	Joback Method
log10ws	-9.01		Crippen Method
logp	7.941		Crippen Method
mcvol	227.780	ml/mol	McGowan Method
pc	4409.10	kPa	Joback Method
rinpol	3244.00		NIST Webbook
rinpol	3244.00		NIST Webbook
rinpol	3244.00		NIST Webbook
tb	967.70	K	Joback Method
tc	1266.25	K	Joback Method
tf	755.88	K	Joback Method
vc	0.846	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	435.76	J/mol×K	967.70	Joback Method
cpg	442.66	J/mol×K	1017.46	Joback Method
cpg	449.93	J/mol×K	1067.22	Joback Method
cpg	457.76	J/mol×K	1116.97	Joback Method
cpg	466.35	J/mol×K	1166.73	Joback Method
cpg	475.92	J/mol×K	1216.49	Joback Method

cpg	486.67	J/mol×K	1266.25	Joback Method
dvisc	0.0005793	Pa×s	755.88	Joback Method
dvisc	0.0004983	Pa×s	791.18	Joback Method
dvisc	0.0004342	Pa×s	826.49	Joback Method
dvisc	0.0003826	Pa×s	861.79	Joback Method
dvisc	0.0003405	Pa×s	897.09	Joback Method
dvisc	0.0003058	Pa×s	932.40	Joback Method
dvisc	0.0002767	Pa×s	967.70	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=R170506&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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