

1-bromo,2,3,4,6,7,8,9-heptachloro-dibenzo-dioxin

Inchi:	InChI=1S/C12BrCl7O2/c13-1-2(14)3(15)6(18)10-9(1)21-11-7(19)4(16)5(17)8(20)12(11)2
InchiKey:	ZSYUWOAGYRQXHH-UHFFFAOYSA-N
Formula:	C12BrCl7O2
SMILES:	Clc1c(Cl)c(Cl)c2c(c1Cl)Oc1c(Cl)c(Cl)c(Cl)c(Br)c1O2
Mol. weight [g/mol]:	504.20

Physical Properties

Property code	Value	Unit	Source
gf	17.81	kJ/mol	Joback Method
hf	-181.20	kJ/mol	Joback Method
hfus	60.81	kJ/mol	Joback Method
hvap	99.68	kJ/mol	Joback Method
log10ws	-8.95		Crippen Method
logp	8.921		Crippen Method
mcvol	236.480	ml/mol	McGowan Method
pc	2690.21	kPa	Joback Method
rinpol	3230.00		NIST Webbook
rinpol	3230.00		NIST Webbook
tb	966.33	K	Joback Method
tc	1246.90	K	Joback Method
tf	751.12	K	Joback Method
vc	0.904	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	444.50	J/molxK	966.33	Joback Method
cpg	471.18	J/molxK	1200.14	Joback Method
cpg	465.52	J/molxK	1153.38	Joback Method
cpg	460.13	J/molxK	1106.61	Joback Method
cpg	454.89	J/molxK	1059.85	Joback Method
cpg	449.72	J/molxK	1013.09	Joback Method
cpg	477.22	J/molxK	1246.90	Joback Method
dvisc	0.0002914	Paxs	966.33	Joback Method

dvisc	0.0003213	Paxs	930.46	Joback Method
dvisc	0.0003571	Paxs	894.59	Joback Method
dvisc	0.0004004	Paxs	858.73	Joback Method
dvisc	0.0004535	Paxs	822.86	Joback Method
dvisc	0.0005194	Paxs	786.99	Joback Method
dvisc	0.0006027	Paxs	751.12	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=R172606&Units=SI

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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