

2,3-dibromo-7-chlorodibenzo-p-dioxin

Inchi:	InChI=1S/C12H5Br2ClO2/c13-7-4-11-12(5-8(7)14)17-10-3-6(15)1-2-9(10)16-11/h1-5H
InchiKey:	SSBCMPITQJYXFS-UHFFFAOYSA-N
Formula:	C12H5Br2ClO2
SMILES:	Clc1ccc2c(c1)Oc1cc(Br)c(Br)cc1O2
Mol. weight [g/mol]:	376.43

Physical Properties

Property code	Value	Unit	Source
gf	151.86	kJ/mol	Joback Method
hf	-3.08	kJ/mol	Joback Method
hfus	42.86	kJ/mol	Joback Method
hvap	76.49	kJ/mol	Joback Method
log10ws	-6.00		Crippen Method
logp	5.763		Crippen Method
mcvol	180.540	ml/mol	McGowan Method
pc	4098.62	kPa	Joback Method
rinpol	2375.00		NIST Webbook
tb	783.01	K	Joback Method
tc	1064.23	K	Joback Method
tf	568.80	K	Joback Method
vc	0.672	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	387.83	J/molxK	783.01	Joback Method
cpg	396.16	J/molxK	829.88	Joback Method
cpg	403.93	J/molxK	876.75	Joback Method
cpg	411.31	J/molxK	923.62	Joback Method
cpg	418.46	J/molxK	970.49	Joback Method
cpg	425.55	J/molxK	1017.36	Joback Method
cpg	432.77	J/molxK	1064.23	Joback Method
dvisc	0.0011822	Paxs	568.80	Joback Method
dvisc	0.0009641	Paxs	604.50	Joback Method

dvisc	0.0008043	Paxs	640.20	Joback Method
dvisc	0.0006840	Paxs	675.90	Joback Method
dvisc	0.0005912	Paxs	711.61	Joback Method
dvisc	0.0005182	Paxs	747.31	Joback Method
dvisc	0.0004597	Paxs	783.01	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=R171821&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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