

Dibenzodioxin, 2,8-dibromo-, 3,7-dichloro-

Inchi:	InChI=1S/C12H3Br2Cl3O2/c13-4-1-7-8(2-5(4)15)18-9-3-6(16)10(14)11(17)12(9)19-7/h1-
InchiKey:	GNJKWCIAEOGLTR-UHFFFAOYSA-N
Formula:	C12H3Br2Cl3O2
SMILES:	Clc1cc2c(cc1Br)Oc1c(cc(Cl)c(Br)c1Cl)O2
Mol. weight [g/mol]:	445.32

Physical Properties

Property code	Value	Unit	Source
gf	108.74	kJ/mol	Joback Method
hf	-57.50	kJ/mol	Joback Method
hfus	50.48	kJ/mol	Joback Method
hvap	86.59	kJ/mol	Joback Method
log10ws	-7.37		Crippen Method
logp	7.070		Crippen Method
mcvol	205.020	ml/mol	McGowan Method
pc	3602.88	kPa	Joback Method
rinpol	2582.00		NIST Webbook
tb	867.83	K	Joback Method
tc	1151.65	K	Joback Method
tf	653.68	K	Joback Method
vc	0.770	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	414.87	J/molxK	867.83	Joback Method
cpg	448.08	J/molxK	1104.35	Joback Method
cpg	441.28	J/molxK	1057.04	Joback Method
cpg	434.72	J/molxK	1009.74	Joback Method
cpg	428.23	J/molxK	962.44	Joback Method
cpg	421.66	J/molxK	915.13	Joback Method
cpg	455.26	J/molxK	1151.65	Joback Method
dvisc	0.0003762	Paxs	867.83	Joback Method
dvisc	0.0004195	Paxs	832.14	Joback Method

dvisc	0.0004724	Paxs	796.45	Joback Method
dvisc	0.0005379	Paxs	760.76	Joback Method
dvisc	0.0006203	Paxs	725.06	Joback Method
dvisc	0.0007260	Paxs	689.37	Joback Method
dvisc	0.0008645	Paxs	653.68	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=R317374&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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