

2,2'-Dichlorobenzil

Other names:	2,2'-Dichlorodibenzoyl Benzil, 2,2'-dichloro- Ethanedione, bis(2-chlorophenyl)-
Inchi:	InChI=1S/C14H8Cl2O2/c15-11-7-3-1-5-9(11)13(17)14(18)10-6-2-4-8-12(10)16/h1-8H
InchiKey:	VOSNNSVWVJFJCR-UHFFFAOYSA-N
Formula:	C14H8Cl2O2
SMILES:	O=C(C(=O)c1ccccc1Cl)c1ccccc1Cl
Mol. weight [g/mol]:	279.12
CAS:	21854-95-5

Physical Properties

Property code	Value	Unit	Source
gf	-9.14	kJ/mol	Joback Method
hf	-138.81	kJ/mol	Joback Method
hfus	30.91	kJ/mol	Joback Method
hvap	74.90	kJ/mol	Joback Method
log10ws	-4.97		Crippen Method
logp	4.059		Crippen Method
mcvol	188.220	ml/mol	McGowan Method
pc	2835.36	kPa	Joback Method
tb	765.64	K	Joback Method
tc	1023.86	K	Joback Method
tf	485.12	K	Joback Method
vc	0.714	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	446.04	J/molxK	765.64	Joback Method
cpg	456.87	J/molxK	808.68	Joback Method
cpg	466.62	J/molxK	851.71	Joback Method
cpg	475.38	J/molxK	894.75	Joback Method
cpg	483.21	J/molxK	937.79	Joback Method
cpg	490.19	J/molxK	980.83	Joback Method

cpg	496.40	J/mol×K	1023.86	Joback Method
dvisc	0.0010475	Paxs	485.12	Joback Method
dvisc	0.0006746	Paxs	531.87	Joback Method
dvisc	0.0004665	Paxs	578.63	Joback Method
dvisc	0.0003409	Paxs	625.38	Joback Method
dvisc	0.0002602	Paxs	672.13	Joback Method
dvisc	0.0002057	Paxs	718.89	Joback Method
dvisc	0.0001674	Paxs	765.64	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=C21854955&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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