o-Hydroxydibenzoylmethane

Other names:	2-Hydroxydibenzoylmethane
	1-(2-Hydroxyphenyl)-3-phenyl-1,3-propanedione
	1,3-Propanedione, 1-(2-hydroxyphenyl)-3-phenyl-
	1,3-Propanedione, 1-(o-hydroxyphenyl)-3-phenyl-
Inchi:	InChI=1S/C15H12O3/c16-13-9-5-4-8-12(13)15(18)10-14(17)11-6-2-1-3-7-11/h1-9,16H,10
InchiKey:	OABFIJGAEVKMJP-UHFFFAOYSA-N
Formula:	C15H12O3
SMILES:	O=C(CC(=O)c1ccccc1O)c1ccccc1
Mol. weight [g/mol]:	240.25
CAS:	1469-94-9

Physical Properties

Property code	Value	Unit	Source
gf	-112.22	kJ/mol	Joback Method
hf	-282.34	kJ/mol	Joback Method
hfus	31.67	kJ/mol	Joback Method
hvap	80.04	kJ/mol	Joback Method
log10ws	-3.57		Crippen Method
logp	2.848		Crippen Method
mcvol	183.700	ml/mol	McGowan Method
pc	3376.28	kPa	Joback Method
tb	784.32	K	Joback Method
tc	1037.67	K	Joback Method
tf	523.23	K	Joback Method
vc	0.637	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	501.86	J/mol×K	784.32	Joback Method
cpg	555.59	J/mol×K	995.45	Joback Method
cpg	546.00	J/mol×K	953.22	Joback Method
cpg	535.98	J/mol×K	911.00	Joback Method
cpg	525.39	J/mol×K	868.77	Joback Method

cpg	514.06	J/mol×K	826.55	Joback Method
cpg	564.89	J/mol×K	1037.67	Joback Method
dvisc	0.0000112	Pa×s	784.32	Joback Method
dvisc	0.0000160	Pa×s	740.80	Joback Method
dvisc	0.0000240	Pa×s	697.29	Joback Method
dvisc	0.0000379	Pa×s	653.77	Joback Method
dvisc	0.0000639	Pa×s	610.26	Joback Method
dvisc	0.0001168	Pa×s	566.75	Joback Method
dvisc	0.0002361	Pa×s	523.23	Joback Method

Sources

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=C1469949&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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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