

2,6-Diiodo-p-benzoquinone

Other names:	2,6-Diiodo-4-benzoquinone 2,6-Diiodoquinone 2,5-Cyclohexadiene-1,4-dione, 2,6-diiodo- p-Benzoquinone, 2,6-diiodo- Diiodoquinone
Inchi:	InChI=1S/C6H2I2O2/c7-4-1-3(9)2-5(8)6(4)10/h1-2H
InchiKey:	KANJSWOVFIVFDI-UHFFFAOYSA-N
Formula:	C6H2I2O2
SMILES:	O=C1C=C(I)C(=O)C(I)=C1
Mol. weight [g/mol]:	359.89
CAS:	20389-01-9

Physical Properties

Property code	Value	Unit	Source
gf	-56.48	kJ/mol	Joback Method
hf	-121.55	kJ/mol	Joback Method
hfus	11.56	kJ/mol	Joback Method
hvap	58.84	kJ/mol	Joback Method
log10ws	-3.38		Crippen Method
logp	1.776		Crippen Method
mcvol	130.720	ml/mol	McGowan Method
pc	4516.42	kPa	Joback Method
tb	691.10	K	Joback Method
tc	1013.28	K	Joback Method
tf	448.12	K	Joback Method
vc	0.468	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	219.44	J/molxK	691.10	Joback Method
cpg	228.02	J/molxK	744.80	Joback Method
cpg	235.71	J/molxK	798.49	Joback Method
cpg	242.43	J/molxK	852.19	Joback Method

cpg	248.09	J/mol×K	905.89	Joback Method
cpg	252.61	J/mol×K	959.58	Joback Method
cpg	255.91	J/mol×K	1013.28	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=C20389019&Units=SI

Legend

cpg:	Ideal gas heat capacity
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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