1,3-Benzenediol, 4,6-dichloro-

Other names: Resorcinol, 4,6-dichloro-
4,6-Dichlororesorcinol
4,6-Dichloro-1,3-dihydroxybenzene
3,4-Dichlororesorcinol
Inchi: InChI=1S/C6H4Cl2O2/c7-3-1-4(8)6(10)2-5(3)9/h1-2,9-10H
InchiKey: GRLQBYQELUWBIO-UHFFFAOYSA-N
Formula: C6H4Cl2O2
SMILES: Oc1cc(O)c(Cl)cc1Cl
Mol. weight [g/mol]: 179.00
CAS: 137-19-9

Physical Properties

Property code	Value	Unit	Source
gf	-230.68	kJ/mol	Joback Method
hf	-328.21	kJ/mol	Joback Method
hfus	24.91	kJ/mol	Joback Method
hvap	66.69	kJ/mol	Joback Method
log10ws	-1.94		Crippen Method
logp	2.405		Crippen Method
mcvol	107.860	ml/mol	McGowan Method
pc	6359.24	kPa	Joback Method
tb	527.20	K	NIST Webbook
tc	861.92	K	Joback Method
tf	479.60	K	Joback Method
vc	0.293	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	220.56	J/mol×K	604.44	Joback Method
cpg	226.43	J/mol×K	647.35	Joback Method
cpg	231.76	J/mol×K	690.27	Joback Method
cpg	236.70	J/mol×K	733.18	Joback Method
cpg	241.40	J/mol×K	776.09	Joback Method

cpg	246.05	J/mol×K	819.00	Joback Method
cpg	250.80	J/mol×K	861.92	Joback Method
dvisc	0.0001179	Pa×s	479.60	Joback Method
dvisc	0.0000687	Pa×s	500.41	Joback Method
dvisc	0.0000418	Pa×s	521.21	Joback Method
dvisc	0.0000264	Pa×s	542.02	Joback Method
dvisc	0.0000173	Pa×s	562.83	Joback Method
dvisc	0.0000117	Pa×s	583.63	Joback Method
dvisc	0.0000081	Pa×s	604.44	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C137199&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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

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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