

Phenol, 2,4-dichloro-6-methyl-

Other names:	o-Cresol, 4,6-dichloro- 2,4-Dichloro-6-methylphenol 4,6-Dichloro-o-cresol 4,6-Dichloro-2-methylphenol
Inchi:	InChI=1S/C7H6Cl2O/c1-4-2-5(8)3-6(9)7(4)10/h2-3,10H,1H3
InchiKey:	WJQZZLQMLJPKQH-UHFFFAOYSA-N
Formula:	C7H6Cl2O
SMILES:	Cc1cc(Cl)cc(Cl)c1O
Mol. weight [g/mol]:	177.03
CAS:	1570-65-6

Physical Properties

Property code	Value	Unit	Source
gf	-77.27	kJ/mol	Joback Method
hf	-183.01	kJ/mol	Joback Method
hfus	21.33	kJ/mol	Joback Method
hvap	56.56	kJ/mol	Joback Method
log10ws	-2.87		Crippen Method
logp	3.007		Crippen Method
mcvol	116.080	ml/mol	McGowan Method
pc	4362.63	kPa	Joback Method
tb	551.68	K	Joback Method
tc	794.42	K	Joback Method
tf	391.67	K	Joback Method
vc	0.384	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	226.28	J/molxK	551.68	Joback Method
cpg	261.82	J/molxK	753.96	Joback Method
cpg	255.69	J/molxK	713.50	Joback Method
cpg	249.15	J/molxK	673.05	Joback Method
cpg	242.13	J/molxK	632.59	Joback Method

cpg	234.53	J/molxK	592.14	Joback Method
cpg	267.62	J/molxK	794.42	Joback Method
dvisc	0.0000654	Paxs	551.68	Joback Method
dvisc	0.0000925	Paxs	525.01	Joback Method
dvisc	0.0001356	Paxs	498.34	Joback Method
dvisc	0.0002076	Paxs	471.68	Joback Method
dvisc	0.0003346	Paxs	445.01	Joback Method
dvisc	0.0005730	Paxs	418.34	Joback Method
dvisc	0.0010560	Paxs	391.67	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=C1570656&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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