

2,3-DICHLOROBENZENETHIOL

Other names:	2,3-Dichlorothiophenol Benzenethiol, 2,3-dichloro-
Inchi:	InChI=1S/C6H4Cl2S/c7-4-2-1-3-5(9)6(4)8/h1-3,9H
InchiKey:	QGRKONUHHGBHRB-UHFFFAOYSA-N
Formula:	C6H4Cl2S
SMILES:	Sc1cccc(Cl)c1Cl
Mol. weight [g/mol]:	179.07

Physical Properties

Property code	Value	Unit	Source
af	0.3447		Cheméo Relay (1.0)
gf	98.32	kJ/mol	Joback Method
hf	32.63	kJ/mol	Cheméo Relay (1.0)
hfus	17.00	kJ/mol	Joback Method
hvap	56.74	kJ/mol	Cheméo Relay (1.0)
ie	8.49	eV	Cheméo Relay (1.0)
log10ws	-3.46		Cheméo Relay (1.0)
logp	3.282		Crippen Method
mcvol	112.470	ml/mol	McGowan Method
pc	4426.72	kPa	Joback Method
tb	514.23	K	Cheméo Relay (1.0)
tc	783.00	K	Cheméo Relay (1.0)
tf	300.56	K	Cheméo Relay (1.0)
vc	0.388	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	185.08	J/mol×K	511.04	Joback Method
cpg	193.15	J/mol×K	554.14	Joback Method
cpg	200.62	J/mol×K	597.24	Joback Method
cpg	207.51	J/mol×K	640.34	Joback Method
cpg	213.84	J/mol×K	683.44	Joback Method
cpg	219.66	J/mol×K	726.54	Joback Method

Sources

Cheméo Relay (1.0, beta):

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C17231957&Units=SI>

Joback Method: https://en.wikipedia.org/wiki/Joback_method

McGowan Method: <http://link.springer.com/article/10.1007/BF02311772>

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307l>

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Cheméo Relay (1.0):

Legend

af:	Acentric Factor
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
ie:	Ionization energy
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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