

3-Chlorobenzenesulphonyl chloride

Other names:	3-chlorobenzenesulphonyl chloride Benzenesulfonyl chloride, 3-chloro-
Inchi:	InChI=1S/C6H4Cl2O2S/c7-5-2-1-3-6(4-5)11(8,9)10/h1-4H
InchiKey:	OINWZUJVEXUHCC-UHFFFAOYSA-N
Formula:	C6H4Cl2O2S
SMILES:	O=S(=O)(Cl)c1cccc(Cl)c1
Mol. weight [g/mol]:	211.07

Physical Properties

Property code	Value	Unit	Source
hf	-279.66	kJ/mol	Cheméo Relay (1.0)
hfus	24.72	kJ/mol	Joback Method
hvap	76.35	kJ/mol	Cheméo Relay (1.0)
ie	9.83	eV	Cheméo Relay (1.0)
log10ws	-3.39		Cheméo Relay (1.0)
logp	2.268		Crippen Method
mcvol	124.210	ml/mol	McGowan Method
tb	537.21	K	Cheméo Relay (1.0)
tf	336.38	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	217.31	J/mol×K	490.98	Joback Method
cpg	226.54	J/mol×K	528.18	Joback Method
cpg	235.17	J/mol×K	565.37	Joback Method
cpg	243.20	J/mol×K	602.57	Joback Method
cpg	250.65	J/mol×K	639.77	Joback Method
cpg	257.50	J/mol×K	676.96	Joback Method
cpg	263.77	J/mol×K	714.16	Joback Method

Sources

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):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2888064&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cpg:	Ideal gas heat capacity
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
tb:	Normal Boiling Point Temperature
tf:	Normal melting (fusion) point

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