

4-Chlorophenylsulphonylacetone

Other names:	1-[(4-Chlorophenyl)sulfonyl]acetone 4-Chlorobenzenesulphonylpropan-2-one 4-Chlorophenylsulfonylpropan-2-one Propan-2-one, 1-(4-chlorophenylsulphonyl)- p-Chlorophenylsulfonylacetone
Inchi:	InChI=1S/C9H9ClO3S/c1-7(11)6-14(12,13)9-4-2-8(10)3-5-9/h2-5H,6H2,1H3
InchiKey:	BRDBHPZILGTBFY-UHFFFAOYSA-N
Formula:	C9H9ClO3S
SMILES:	CC(=O)CS(=O)(=O)c1ccc(Cl)cc1
Mol. weight [g/mol]:	232.69

Physical Properties

Property code	Value	Unit	Source
hf	-443.19	kJ/mol	Cheméo Relay (1.0)
hfus	29.89	kJ/mol	Joback Method
ie	9.19	eV	Cheméo Relay (1.0)
log10ws	-2.76		Cheméo Relay (1.0)
logp	1.703		Crippen Method
mcvol	155.810	ml/mol	McGowan Method
tb	602.06	K	Cheméo Relay (1.0)
tf	381.25	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	335.62	J/mol×K	576.06	Joback Method
cpg	347.61	J/mol×K	612.05	Joback Method
cpg	358.80	J/mol×K	648.04	Joback Method
cpg	369.22	J/mol×K	684.03	Joback Method
cpg	378.87	J/mol×K	720.02	Joback Method
cpg	387.75	J/mol×K	756.01	Joback Method
cpg	395.88	J/mol×K	792.00	Joback Method

Sources

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=C5000486&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

Legend

cpg:	Ideal gas heat capacity
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion 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

Latest version available from:

<https://www.chemeo.com/cid/55-410-5/4-Chlorophenylsulphonylacetone.pdf>

Generated by Cheméo on 2026-07-21 18:04:10.751936106 +0000 UTC m=+168146.593821494.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.