

2,3,4-Trichlorophenyl isothiocyanate

Inchi: InChI=1S/C7H2Cl3NS/c8-4-1-2-5(11-3-12)7(10)6(4)9/h1-2H
InchiKey: NUAGIDXAYVLNEG-UHFFFAOYSA-N
Formula: C7H2Cl3NS
SMILES: S=C=Nc1ccc(Cl)c(Cl)c1Cl
Mol. weight [g/mol]: 238.52
CAS: 127142-69-2

Physical Properties

Property code	Value	Unit	Source
hf	251.16	kJ/mol	Joback Method
hvap	59.03	kJ/mol	Joback Method
log10ws	-4.44		Crippen Method
logp	4.381		Crippen Method
mcvol	140.180	ml/mol	McGowan Method
pc	3488.88	kPa	Joback Method
tb	659.42	K	Joback Method
tc	938.05	K	Joback Method

Sources

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C127142692&Units=SI>
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>

Legend

hf: Enthalpy of formation 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

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