

4-Chloro-3-nitrophenyl isothiocyanate

Inchi:	InChI=1S/C7H3CIN2O2S/c8-6-2-1-5(9-4-13)3-7(6)10(11)12/h1-3H
InchiKey:	ZXGZBHIDSJXKLE-UHFFFAOYSA-N
Formula:	C7H3CIN2O2S
SMILES:	O=[N+](=[O-])c1cc(N=C=S)ccc1Cl
Mol. weight [g/mol]:	214.63
CAS:	127142-66-9

Physical Properties

Property code	Value	Unit	Source
hf	283.35	kJ/mol	Joback Method
hvap	66.19	kJ/mol	Joback Method
log10ws	-3.73		Crippen Method
logp	2.982		Crippen Method
mcvol	133.120	ml/mol	McGowan Method
pc	3945.61	kPa	Joback Method
tb	731.42	K	Joback Method
tc	1024.55	K	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C127142669&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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