

Nitrosyl chloride (18O15NCl)

Inchi: InChI=1S/CINO/c1-2-3/i2+1,3+2
InchiKey: VPCDQGACGWYTMCMC-JFJVQQHZSA-N
Formula: Cl15N18O
SMILES: O=NCI
Mol. weight [g/mol]: 68.45

Physical Properties

Property code	Value	Unit	Source
hf	-227.26	kJ/mol	Joback Method
hvap	29.08	kJ/mol	Joback Method
log10ws	-1.16		Crippen Method
logp	0.907		Crippen Method
mcvol	34.650	ml/mol	McGowan Method
pc	6170.82	kPa	Joback Method
tb	300.23	K	Joback Method
tc	476.55	K	Joback Method

Sources

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=B4000075&Units=SI>
Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307I>
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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