

dinitrogen trioxide

Inchi: InChI=1S/N2O3/c3-1-2(4)5
InchiKey: LZDSILRDTDCIQT-UHFFFAOYSA-N
Formula: N2O3
SMILES: O=N[N+](=O)[O-]
Mol. weight [g/mol]: 76.01
CAS: 10544-73-7

Physical Properties

Property code	Value	Unit	Source
hf	-222.28	kJ/mol	Joback Method
hvap	41.28	kJ/mol	Joback Method
log10ws	-1.09		Crippen Method
logp	-0.055		Crippen Method
mcvol	39.830	ml/mol	McGowan Method
pc	6674.78	kPa	Joback Method
tb	414.64	K	Joback Method
tc	630.53	K	Joback Method

Sources

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307l>
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>
NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C10544737&Units=SI>

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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<https://www.chemeo.com/cid/37-482-6/dinitrogen-trioxide.pdf>

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