

Diazenes, cis

Inchi:	InChI=1S/H2N2/c1-2/h1-2H/i/hD2
InchiKey:	RAABOESOVLLHRU-ZSJDYOACSA-N
Formula:	D2N2
SMILES:	N=N
Mol. weight [g/mol]:	32.04
CAS:	66511-78-2

Physical Properties

Property code	Value	Unit	Source
gf	293.20	kJ/mol	Joback Method
hf	255.69	kJ/mol	Joback Method
hvap	39.64	kJ/mol	Joback Method
log10ws	-2.58		Crippen Method
logp	0.596		Crippen Method
mcvol	26.520	ml/mol	McGowan Method
tb	364.16	K	Joback Method
tf	260.32	K	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	30.39	J/mol×K	364.16	Joback Method
cpg	-7.67	J/mol×K	100.12	Joback Method
cpg	-7.67	J/mol×K	100.12	Joback Method
cpg	-7.67	J/mol×K	100.12	Joback Method
cpg	-7.67	J/mol×K	100.12	Joback Method
cpg	-7.67	J/mol×K	100.12	Joback Method
cpg	-7.67	J/mol×K	100.12	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C66511782&Units=SI
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

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
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
tb:	Normal Boiling Point Temperature
tf:	Normal melting (fusion) point

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