

Bicyclo[2.2.2]oct-5-ene-2-carbonitrile, 3-methyl-,

(1«alpha»,2«alpha»,3«alpha»,4«alpha»)-
(endo,endo)

InChI: InChI=1S/C10H15N1-7-8-1-4-9(5-3-8)10(7)6-11/7-11H 2-5H2,1H3/t7-,8?,9?,10-/m0/s

InchiKey: ZFLTZPJOKVUDPQ-NFTFJBUSSA-N
Formula: C10H13N
SMILES: CC1C2CCC(CC2)C1C#N

Mol. weight [g/mol]: 147.22

CAS: 114718-72-8

Physical Properties

Property code	Value	Unit	Source
gf	248.38	kJ/mol	Joback Method
hf	133.00	kJ/mol	NIST Webbook
hfus	17.37	kJ/mol	Joback Method
hvap	47.88	kJ/mol	Joback Method
log10ws	-2.70		Crippen Method
logp	2.582		Crippen Method
mcvol	131.420	ml/mol	McGowan Method
pc	2605.74	kPa	Joback Method
tb	542.96	K	Joback Method
tc	766.99	K	Joback Method
tf	287.81	K	Joback Method
vc	0.517	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	334.51	J/molxK	542.96	Joback Method
cpg	352.31	J/molxK	580.30	Joback Method
cpg	368.98	J/molxK	617.64	Joback Method
cpg	384.58	J/molxK	654.98	Joback Method
cpg	399.16	J/molxK	692.32	Joback Method
cpg	412.78	J/molxK	729.66	Joback Method
cpg	425.50	J/molxK	766.99	Joback Method

Sources

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=C114718728&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvac:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mccvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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