

2-Norbornaneacetonitrile, exo-

Inchi:	InChI=1S/C9H13N/c10-4-3-9-6-7-1-2-8(9)5-7/h7-9H,1-3,5-6H2
InchiKey:	KZBGLYZJWBLKLA-UHFFFAOYSA-N
Formula:	C9H13N
SMILES:	N#CCC1CC2CCC1C2
Mol. weight [g/mol]:	135.21

Physical Properties

Property code	Value	Unit	Source
gf	259.77	kJ/mol	Joback Method
hf	54.89	kJ/mol	Joback Method
hfus	15.81	kJ/mol	Joback Method
hvap	45.80	kJ/mol	Joback Method
log10ws	-2.52		Crippen Method
logp	2.336		Crippen Method
mcvol	117.330	ml/mol	McGowan Method
pc	2906.11	kPa	Joback Method
tb	520.48	K	Joback Method
tc	740.40	K	Joback Method
tf	284.30	K	Joback Method
vc	0.470	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	286.32	J/mol×K	520.48	Joback Method
cpg	301.94	J/mol×K	557.13	Joback Method
cpg	316.53	J/mol×K	593.79	Joback Method
cpg	330.13	J/mol×K	630.44	Joback Method
cpg	342.83	J/mol×K	667.10	Joback Method
cpg	354.69	J/mol×K	703.75	Joback Method
cpg	365.77	J/mol×K	740.40	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=B6006686&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
hfus:	Enthalpy of fusion 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
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/69-399-4/2-Norbornaneacetonitrile-exo.pdf>

Generated by Cheméo on 2025-12-05 09:02:56.27602173 +0000 UTC m=+4673573.806062383.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.