

Acetamide, N-propyl-

Other names:	Acetamide, N-propyl- N-Propylacetamide Acetamide, N-n-propyl-, N-(n-Propyl)ethanamide
Inchi:	InChI=1S/C5H11NO/c1-3-4-6-5(2)7/h3-4H2,1-2H3,(H,6,7)
InchiKey:	IHPHPGLJYCDONF-UHFFFAOYSA-N
Formula:	C5H11NO
SMILES:	CCCNC(C)=O
Mol. weight [g/mol]:	101.15

Physical Properties

Property code	Value	Unit	Source
hf	-306.13	kJ/mol	Cheméo Relay (1.0)
hfus	15.40	kJ/mol	Joback Method
hvap	69.80 ± 0.20	kJ/mol	NIST Webbook
ie	9.29	eV	Cheméo Relay (1.0)
logp	0.532		Crippen Method
mcvol	92.860	ml/mol	McGowan Method
rinpol	974.00		NIST Webbook
rinpol	975.00		NIST Webbook
rinpol	974.00		NIST Webbook
ripol	1802.00		NIST Webbook
ripol	1802.00		NIST Webbook
tb	449.72	K	Cheméo Relay (1.0)
tf	248.49	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	179.79	J/mol×K	417.84	Joback Method
cpg	189.39	J/mol×K	448.40	Joback Method
cpg	198.59	J/mol×K	478.96	Joback Method
cpg	207.41	J/mol×K	509.52	Joback Method
cpg	215.86	J/mol×K	540.08	Joback Method

cpg	223.93	J/mol×K	570.64	Joback Method
cpg	231.65	J/mol×K	601.20	Joback Method
cpl	207.94	J/mol×K	298.15	NIST Webbook
cpl	207.00	J/mol×K	298.15	NIST Webbook

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C5331486&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

cpg:	Ideal gas heat capacity
cpl:	Liquid phase heat capacity
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tf:	Normal melting (fusion) point

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