2-Propenamide, N-(1-methylethyl)-

Other names:	Acrylamide, N-isopropyl-
	Isopropyl acrylamide
	N-Isopropylacrylamide
	Nipam
	Isopropylamid kyseliny akrylove
Inchi:	InChI=1S/C6H11NO/c1-4-6(8)7-5(2)3/h4-5H,1H2,2-3H3,(H,7,8)
InchiKey:	QNILTEGFHQSKFF-UHFFFAOYSA-N
Formula:	C6H11NO
SMILES:	C=CC(=O)NC(C)C
Mol. weight [g/mol]:	113.16
CAS:	2210-25-5

Physical Properties

Property code	Value	Unit	Source
gf	45.51	kJ/mol	Joback Method
hf	-106.13	kJ/mol	Joback Method
hfus	13.19	kJ/mol	Joback Method
hvap	41.07	kJ/mol	Joback Method
log10ws	-1.26		Crippen Method
logp	0.697		Crippen Method
mcvol	102.650	ml/mol	McGowan Method
pc	3594.25	kPa	Joback Method
tb	436.96	K	Joback Method
tc	626.96	K	Joback Method
tf	243.21	K	Joback Method
vc	0.388	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	202.64	J/mol×K	436.96	Joback Method
cpg	213.14	J/mol×K	468.63	Joback Method
cpg	223.14	J/mol×K	500.29	Joback Method
cpg	232.66	J/mol×K	531.96	Joback Method

cpg	241.71	J/mol×K	563.63	Joback Method
cpg	250.31	J/mol×K	595.29	Joback Method
cpg	258.47	J/mol×K	626.96	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=C2210255&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
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