

1-Nonen-4-ol

Inchi:	InChI=1S/C9H18O/c1-3-5-6-8-9(10)7-4-2/h4,9-10H,2-3,5-8H2,1H3
InchiKey:	NDUPBTSXOSZHON-UHFFFAOYSA-N
Formula:	C9H18O
SMILES:	C=CCC(O)CCCC
Mol. weight [g/mol]:	142.24
CAS:	35192-73-5

Physical Properties

Property code	Value	Unit	Source
gf	-26.52	kJ/mol	Joback Method
hf	-261.17	kJ/mol	Joback Method
hfus	18.35	kJ/mol	Joback Method
hvap	51.25	kJ/mol	Joback Method
log10ws	-2.82		Crippen Method
logp	2.504		Crippen Method
mcvol	139.240	ml/mol	McGowan Method
pc	2657.03	kPa	Joback Method
rinpol	1109.00		NIST Webbook
rinpol	1097.00		NIST Webbook
rinpol	1109.00		NIST Webbook
tb	493.74	K	Joback Method
tc	658.65	K	Joback Method
tf	235.25	K	Joback Method
vc	0.533	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	316.61	J/molxK	493.74	Joback Method
cpg	328.80	J/molxK	521.23	Joback Method
cpg	340.49	J/molxK	548.71	Joback Method
cpg	351.69	J/molxK	576.20	Joback Method
cpg	362.42	J/molxK	603.68	Joback Method
cpg	372.70	J/molxK	631.17	Joback Method

cpg	382.54	J/mol×K	658.65	Joback Method
dvisc	0.0825669	Paxs	235.25	Joback Method
dvisc	0.0126586	Paxs	278.33	Joback Method
dvisc	0.0032084	Paxs	321.41	Joback Method
dvisc	0.0011249	Paxs	364.50	Joback Method
dvisc	0.0004922	Paxs	407.58	Joback Method
dvisc	0.0002522	Paxs	450.66	Joback Method
dvisc	0.0001453	Paxs	493.74	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=C35192735&Units=SI

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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