2-Nonen-1-ol, (E)-

Other names:	(E)-2-Nonen-1-ol
	trans-2-Nonen-1-Ol
	trans-2-Nonenol
	(2E)-2-Nonen-1-ol
	(E)-2-Nonenol
	(E)-non-2-en-1-ol
Inchi:	InChI=1S/C9H18O/c1-2-3-4-5-6-7-8-9-10/h7-8,10H,2-6,9H2,1H3/b8-7+
InchiKey:	NSSALFVIQPAIQK-BQYQJAHWSA-N
Formula:	C9H18O
SMILES:	CCCCCCC=CCO
Mol. weight [g/mol]:	142.24
CAS:	31502-14-4

Physical Properties

Property code	Value	Unit	Source
gf	-31.70	kJ/mol	Joback Method
hf	-264.10	kJ/mol	Joback Method
hfus	23.36	kJ/mol	Joback Method
hvap	52.27	kJ/mol	Joback Method
log10ws	-2.71		Crippen Method
logp	2.505		Crippen Method
mcvol	139.240	ml/mol	McGowan Method
pc	2662.52	kPa	Joback Method
rinpol	1120.00		NIST Webbook
rinpol	1173.00		NIST Webbook
rinpol	1172.00		NIST Webbook
rinpol	1181.00		NIST Webbook
rinpol	1175.00		NIST Webbook
rinpol	1176.00		NIST Webbook
rinpol	1181.00		NIST Webbook
rinpol	1149.00		NIST Webbook
rinpol	1157.00		NIST Webbook
rinpol	1153.00		NIST Webbook
rinpol	1171.00		NIST Webbook
rinpol	1161.00		NIST Webbook
rinpol	1152.00		NIST Webbook
rinpol	1216.00		NIST Webbook

rinpol	1161.00		NIST Webbook
rinpol	1171.00		NIST Webbook
rinpol	1152.00		NIST Webbook
rinpol	1153.00		NIST Webbook
rinpol	1153.00		NIST Webbook
rinpol	1178.00		NIST Webbook
ripol	1715.00		NIST Webbook
ripol	1688.00		NIST Webbook
ripol	1713.00		NIST Webbook
ripol	1703.00		NIST Webbook
ripol	1688.00		NIST Webbook
ripol	1713.00		NIST Webbook
ripol	1691.00		NIST Webbook
ripol	1703.00		NIST Webbook
ripol	1691.00		NIST Webbook
ripol	1716.00		NIST Webbook
ripol	1722.00		NIST Webbook
tb	501.66	K	Joback Method
tc	667.34	K	Joback Method
tf	246.93	K	Joback Method
vc	0.538	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	317.11	J/mol×K	501.66	Joback Method
cpg	372.49	J/mol×K	639.73	Joback Method
cpg	362.36	J/mol×K	612.11	Joback Method
cpg	351.78	J/mol×K	584.50	Joback Method
cpg	340.72	J/mol×K	556.89	Joback Method
cpg	329.17	J/mol×K	529.27	Joback Method
cpg	382.18	J/mol×K	667.34	Joback Method
dvisc	0.0001222	Pa×s	501.66	Joback Method
dvisc	0.0002067	Pa×s	459.21	Joback Method
dvisc	0.0003894	Pa×s	416.75	Joback Method
dvisc	0.0008466	Pa×s	374.30	Joback Method
dvisc	0.0022455	Pa×s	331.84	Joback Method
dvisc	0.0079294	Pa×s	289.38	Joback Method
dvisc	0.0432087	Pa×s	246.93	Joback Method

Sources

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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C31502144&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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume