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

Other names:	trans-6-Nonen-1-ol
	(6E)-6-Nonen-1-ol
	6-(E)-Nonen-1-ol
	(E)-6-Nonen-1-ol
	(E)-non-6-en-1-ol
Inchi:	InChI=1S/C9H18O/c1-2-3-4-5-6-7-8-9-10/h3-4,10H,2,5-9H2,1H3/b4-3+
InchiKey:	XJHRZBIBSSVCEL-ONEGZZNKSA-N
Formula:	C9H18O
SMILES:	CCC=CCCCCCO
Mol. weight [g/mol]:	142.24
CAS:	31502-19-9

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
ripol	1714.00		NIST Webbook
ripol	1749.00		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	329.17	J/mol×K	529.27	Joback Method

cpg	340.72	J/mol×K	556.89	Joback Method
cpg	351.78	J/mol×K	584.50	Joback Method
cpg	362.36	J/mol×K	612.11	Joback Method
cpg	372.49	J/mol×K	639.73	Joback Method
cpg	382.18	J/mol×K	667.34	Joback Method
dvisc	0.0432087	Pa×s	246.93	Joback Method
dvisc	0.0079294	Pa×s	289.38	Joback Method
dvisc	0.0022455	Pa×s	331.84	Joback Method
dvisc	0.0008466	Pa×s	374.30	Joback Method
dvisc	0.0003894	Pa×s	416.75	Joback Method
dvisc	0.0002067	Pa×s	459.21	Joback Method
dvisc	0.0001222	Pa×s	501.66	Joback Method

Sources

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=C31502199&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume