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

Other names: (E)-3-nonen-2-ol
Inchi: InChI=1S/C9H18O/c1-3-4-5-6-7-8-9(2)10/h7-10H,3-6H2,1-2H3/b8-7+
InchiKey: YNVSGIMVJYMXHH-BQYQJAHWSA-N
Formula: C9H18O
SMILES: CCCCCC=CC(C)O
Mol. weight [g/mol]: 142.24
CAS: 38285-42-6

Physical Properties

Property code	Value	Unit	Source
gf	-34.14	kJ/mol	Joback Method
hf	-269.38	kJ/mol	Joback Method
hfus	19.83	kJ/mol	Joback Method
hvap	51.88	kJ/mol	Joback Method
log10ws	-2.82		Crippen Method
logp	2.504		Crippen Method
mcvol	139.240	ml/mol	McGowan Method
pc	2684.64	kPa	Joback Method
ripol	1582.00		NIST Webbook
ripol	1582.00		NIST Webbook
tb	501.22	K	Joback Method
tc	670.12	K	Joback Method
tf	231.93	K	Joback Method
vc	0.532	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	317.33	J/mol×K	501.22	Joback Method
cpg	373.96	J/mol×K	641.97	Joback Method
cpg	363.63	J/mol×K	613.82	Joback Method
cpg	352.83	J/mol×K	585.67	Joback Method
cpg	341.52	J/mol×K	557.52	Joback Method
cpg	329.69	J/mol×K	529.37	Joback Method

cpg	383.83	J/mol×K	670.12	Joback Method
dvisc	0.0001158	Pa×s	501.22	Joback Method
dvisc	0.0002043	Pa×s	456.34	Joback Method
dvisc	0.0004077	Pa×s	411.46	Joback Method
dvisc	0.0009639	Pa×s	366.58	Joback Method
dvisc	0.0028972	Pa×s	321.69	Joback Method
dvisc	0.0124426	Pa×s	276.81	Joback Method
dvisc	0.0939289	Pa×s	231.93	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=C38285426&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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

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