

(Z)-4-nonenol

Inchi:	InChI=1S/C9H18O/c1-2-3-4-5-6-7-8-9-10/h5-6,10H,2-4,7-9H2,1H3/b6-5-
InchiKey:	KANHUDSFOMPVGY-WAYWQWQTSA-N
Formula:	C9H18O
SMILES:	CCCCC=CCCCO
Mol. weight [g/mol]:	142.24

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	1690.00		NIST Webbook
ripol	1690.00		NIST Webbook
tb	501.66	K	Joback Method
tc	667.34	K	Joback Method
tf	246.93	K	Joback Method
vc	0.538	m ³ /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	Paxs	246.93	Joback Method

dvisc	0.0079294	Paxs	289.38	Joback Method
dvisc	0.0022455	Paxs	331.84	Joback Method
dvisc	0.0008466	Paxs	374.30	Joback Method
dvisc	0.0003894	Paxs	416.75	Joback Method
dvisc	0.0002067	Paxs	459.21	Joback Method
dvisc	0.0001222	Paxs	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=R519872&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cp_g:	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:	Log ₁₀ of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
m_{cvol}:	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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