

2,4-Nonadienal

Other names:	n-Nona-2,4-dienal Nona-2,4-dienal nona-2,4-dien-1-al
Inchi:	InChI=1S/C9H14O/c1-2-3-4-5-6-7-8-9-10/h5-9H,2-4H2,1H3
InchiKey:	ZHHYXNZJDGDGPJ-UHFFFAOYSA-N
Formula:	C9H14O
SMILES:	CCCCC=CC=CC=O
Mol. weight [g/mol]:	138.21
CAS:	6750-03-4

Physical Properties

Property code	Value	Unit	Source
gf	85.82	kJ/mol	Joback Method
hf	-80.23	kJ/mol	Joback Method
hfus	21.76	kJ/mol	Joback Method
hvap	42.26	kJ/mol	Joback Method
log10ws	-2.58		Crippen Method
logp	2.488		Crippen Method
mcvol	130.640	ml/mol	McGowan Method
pc	2758.46	kPa	Joback Method
rinpol	1200.00		NIST Webbook
rinpol	1212.00		NIST Webbook
rinpol	1218.00		NIST Webbook
rinpol	1230.00		NIST Webbook
rinpol	1222.00		NIST Webbook
rinpol	1187.00		NIST Webbook
rinpol	1188.00		NIST Webbook
rinpol	1196.00		NIST Webbook
rinpol	1199.00		NIST Webbook
rinpol	1236.00		NIST Webbook
rinpol	1196.00		NIST Webbook
rinpol	1197.00		NIST Webbook
rinpol	1212.00		NIST Webbook
rinpol	1210.00		NIST Webbook
rinpol	1208.00		NIST Webbook
rinpol	1215.00		NIST Webbook
rinpol	1214.00		NIST Webbook

rinpol	1218.00		NIST Webbook
rinpol	1195.00		NIST Webbook
rinpol	1169.00		NIST Webbook
rinpol	1219.00		NIST Webbook
rinpol	1192.00		NIST Webbook
rinpol	1218.00		NIST Webbook
rinpol	1220.00		NIST Webbook
rinpol	1185.00		NIST Webbook
rinpol	1203.00		NIST Webbook
rinpol	1215.00		NIST Webbook
rinpol	1201.00		NIST Webbook
rinpol	1226.00		NIST Webbook
rinpol	1201.00		NIST Webbook
rinpol	1213.00		NIST Webbook
rinpol	1218.00		NIST Webbook
rinpol	1218.00		NIST Webbook
rinpol	1201.00		NIST Webbook
rinpol	1193.00		NIST Webbook
rinpol	1169.00		NIST Webbook
ripol	1710.00		NIST Webbook
ripol	1749.00		NIST Webbook
ripol	1710.00		NIST Webbook
ripol	1668.00		NIST Webbook
ripol	1700.00		NIST Webbook
ripol	1710.00		NIST Webbook
ripol	1749.00		NIST Webbook
tb	462.30	K	Joback Method
tc	648.39	K	Joback Method
tf	223.03	K	Joback Method
vc	0.516	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	266.24	J/mol×K	462.30	Joback Method
cpg	278.77	J/mol×K	493.32	Joback Method
cpg	290.63	J/mol×K	524.33	Joback Method
cpg	301.85	J/mol×K	555.35	Joback Method
cpg	312.48	J/mol×K	586.36	Joback Method
cpg	322.54	J/mol×K	617.38	Joback Method
cpg	332.06	J/mol×K	648.39	Joback Method

dvisc	0.0043918	Paxs	223.03	Joback Method
dvisc	0.0018105	Paxs	262.91	Joback Method
dvisc	0.0009426	Paxs	302.79	Joback Method
dvisc	0.0005712	Paxs	342.66	Joback Method
dvisc	0.0003843	Paxs	382.54	Joback Method
dvisc	0.0002786	Paxs	422.42	Joback Method
dvisc	0.0002135	Paxs	462.30	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=C6750034&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cp_g:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
g_f:	Standard Gibbs free energy of formation
h_f:	Enthalpy of formation at standard conditions
h_{fus}:	Enthalpy of fusion at standard conditions
h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
log_p:	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

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