

3,6-Nonadien-1-ol, (E,Z)-

Other names:	(3E,6E)-3,6-Nonadien-1-ol 3,6-(E,Z)-Nonadien-1-ol (E,Z)-3,6-Nonadien-1-ol (E,Z)-3,6-Nonadienol trans,cis-3,6-Nonadien-1-ol
Inchi:	InChI=1S/C9H16O/c1-2-3-4-5-6-7-8-9-10/h3-4,6-7,10H,2,5,8-9H2,1H3/b4-3+,7-6+
InchiKey:	PICGPEBVZGCYBV-FZWLCVONSA-N
Formula:	C9H16O
SMILES:	CCC=CCC=CCCO
Mol. weight [g/mol]:	140.22
CAS:	56805-23-3

Physical Properties

Property code	Value	Unit	Source
gf	48.52	kJ/mol	Joback Method
hf	-146.88	kJ/mol	Joback Method
hfus	23.56	kJ/mol	Joback Method
hvap	52.22	kJ/mol	Joback Method
log10ws	-2.56		Crippen Method
logp	2.281		Crippen Method
mcvol	134.940	ml/mol	McGowan Method
pc	2811.36	kPa	Joback Method
ripol	1156.10		NIST Webbook
ripol	1762.00		NIST Webbook
ripol	1764.00		NIST Webbook
ripol	1762.00		NIST Webbook
ripol	1731.00		NIST Webbook
ripol	1731.00		NIST Webbook
tb	505.82	K	Joback Method
tc	678.53	K	Joback Method
tf	241.85	K	Joback Method
vc	0.518	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	299.59	J/molxK	505.82	Joback Method
cpg	311.24	J/molxK	534.61	Joback Method
cpg	322.33	J/molxK	563.39	Joback Method
cpg	332.89	J/molxK	592.18	Joback Method
cpg	342.93	J/molxK	620.96	Joback Method
cpg	352.49	J/molxK	649.75	Joback Method
cpg	361.60	J/molxK	678.53	Joback Method
dvisc	0.0451627	Paxs	241.85	Joback Method
dvisc	0.0074581	Paxs	285.85	Joback Method
dvisc	0.0019913	Paxs	329.84	Joback Method
dvisc	0.0007255	Paxs	373.84	Joback Method
dvisc	0.0003269	Paxs	417.83	Joback Method
dvisc	0.0001715	Paxs	461.83	Joback Method
dvisc	0.0001006	Paxs	505.82	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=C56805233&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

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