(Z,Z)-3,6-nonadienol

Other names: (Z,Z)-3,6-Nonadien-1-ol
(Z,Z)-Nona-3,6-dien-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-CWWKMNTPSA-N
Formula: C9H16O
SMILES: CCC=CCC=CCCO
Mol. weight [g/mol]: 140.22

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
rinpol	1161.00		NIST Webbook
rinpol	1161.00		NIST Webbook
ripol	1749.00		NIST Webbook
ripol	1759.00		NIST Webbook
ripol	1748.00		NIST Webbook
ripol	1754.00		NIST Webbook
ripol	1759.00		NIST Webbook
ripol	1802.00		NIST Webbook
ripol	1765.00		NIST Webbook
ripol	1730.00		NIST Webbook
ripol	1749.00		NIST Webbook
ripol	1730.00		NIST Webbook
ripol	1753.00		NIST Webbook
tb	505.82	K	Joback Method
tc	678.53	K	Joback Method
tf	241.85	K	Joback Method
vc	0.518	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	299.59	J/mol×K	505.82	Joback Method
cpg	311.24	J/mol×K	534.61	Joback Method
cpg	322.33	J/mol×K	563.39	Joback Method
cpg	332.89	J/mol×K	592.18	Joback Method
cpg	342.93	J/mol×K	620.96	Joback Method
cpg	352.49	J/mol×K	649.75	Joback Method
cpg	361.60	J/mol×K	678.53	Joback Method
dvisc	0.0451627	Pa×s	241.85	Joback Method
dvisc	0.0074581	Pa×s	285.85	Joback Method
dvisc	0.0019913	Pa×s	329.84	Joback Method
dvisc	0.0007255	Pa×s	373.84	Joback Method
dvisc	0.0003269	Pa×s	417.83	Joback Method
dvisc	0.0001715	Pa×s	461.83	Joback Method
dvisc	0.0001006	Pa×s	505.82	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=R308013&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
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