

3-methyldec-4-en-1-ol

Inchi:	InChI=1S/C11H22O/c1-3-4-5-6-7-8-11(2)9-10-12/h7-8,11-12H,3-6,9-10H2,1-2H3/b8-7+
InchiKey:	JDCKKTBNCHNHRR-BQYQJAHWSA-N
Formula:	C11H22O
SMILES:	CCCCC=CC(C)CCO
Mol. weight [g/mol]:	170.29

Physical Properties

Property code	Value	Unit	Source
gf	-17.30	kJ/mol	Joback Method
hf	-310.66	kJ/mol	Joback Method
hfus	25.01	kJ/mol	Joback Method
hvap	56.33	kJ/mol	Joback Method
log10ws	-3.30		Crippen Method
logp	3.141		Crippen Method
mcvol	167.420	ml/mol	McGowan Method
pc	2220.80	kPa	Joback Method
rinpol	1283.00		NIST Webbook
rinpol	1283.00		NIST Webbook
tb	546.98	K	Joback Method
tc	713.74	K	Joback Method
tf	254.47	K	Joback Method
vc	0.644	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	410.60	J/molxK	546.98	Joback Method
cpg	424.47	J/molxK	574.77	Joback Method
cpg	437.74	J/molxK	602.57	Joback Method
cpg	450.44	J/molxK	630.36	Joback Method
cpg	462.58	J/molxK	658.15	Joback Method
cpg	474.18	J/molxK	685.94	Joback Method
cpg	485.28	J/molxK	713.74	Joback Method
dvisc	0.0524726	Paxs	254.47	Joback Method

dvisc	0.0074961	Paxs	303.22	Joback Method
dvisc	0.0018359	Paxs	351.97	Joback Method
dvisc	0.0006332	Paxs	400.73	Joback Method
dvisc	0.0002751	Paxs	449.48	Joback Method
dvisc	0.0001407	Paxs	498.23	Joback Method
dvisc	0.0000811	Paxs	546.98	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R211593&Units=SI
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

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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