

2,4-Undecadien-1-ol

Other names:	2,4-Undecadienol
Inchi:	InChI=1S/C11H20O/c1-2-3-4-5-6-7-8-9-10-11-12/h7-10,12H,2-6,11H2,1H3/b8-7+,10-9+
InchiKey:	FVKXLSPKNRZPJK-XBLVEGMJSA-N
Formula:	C11H20O
SMILES:	CCCCCCC=CC=CCO
Mol. weight [g/mol]:	168.28
CAS:	77657-78-4

Physical Properties

Property code	Value	Unit	Source
gf	65.36	kJ/mol	Joback Method
hf	-188.16	kJ/mol	Joback Method
hfus	28.74	kJ/mol	Joback Method
hvap	56.67	kJ/mol	Joback Method
log10ws	-3.40		Crippen Method
logp	3.062		Crippen Method
mcvol	163.120	ml/mol	McGowan Method
pc	2315.84	kPa	Joback Method
tb	551.58	K	Joback Method
tc	721.75	K	Joback Method
tf	264.39	K	Joback Method
vc	0.630	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	391.73	J/mol×K	551.58	Joback Method
cpg	404.89	J/mol×K	579.94	Joback Method
cpg	417.43	J/mol×K	608.30	Joback Method
cpg	429.39	J/mol×K	636.66	Joback Method
cpg	440.80	J/mol×K	665.03	Joback Method
cpg	451.68	J/mol×K	693.39	Joback Method
cpg	462.08	J/mol×K	721.75	Joback Method
dvisc	0.0273676	Paxs	264.39	Joback Method

dvisc	0.0047561	Paxs	312.25	Joback Method
dvisc	0.0013161	Paxs	360.12	Joback Method
dvisc	0.0004923	Paxs	407.99	Joback Method
dvisc	0.0002264	Paxs	455.85	Joback Method
dvisc	0.0001207	Paxs	503.72	Joback Method
dvisc	0.0000717	Paxs	551.58	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=C77657784&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/50-384-0/2-4-Undecadien-1-ol.pdf>

Generated by Cheméo on 2024-04-26 02:22:18.97802161 +0000 UTC m=+16387387.898598922.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.