

8-Dodecen-1-ol, (Z)-

Other names:	Z-8-Dodecen-1-ol (8Z)-8-Dodecen-1-ol 8-Dodecenol, Z cis-8-Dodecen-1-ol (Z)-dodec-8-enol
Inchi:	InChI=1S/C12H24O/c1-2-3-4-5-6-7-8-9-10-11-12-13/h4-5,13H,2-3,6-12H2,1H3/b5-4-
InchiKey:	YEQONIQGGSENJQ-PLNGDYQASA-N
Formula:	C12H24O
SMILES:	CCCC=CCCCCCCCO
Mol. weight [g/mol]:	184.32
CAS:	40642-40-8

Physical Properties

Property code	Value	Unit	Source
gf	-6.44	kJ/mol	Joback Method
hf	-326.02	kJ/mol	Joback Method
hfus	31.13	kJ/mol	Joback Method
hvap	91.00	kJ/mol	NIST Webbook
log10ws	-3.96		Crippen Method
logp	3.676		Crippen Method
mcvol	181.510	ml/mol	McGowan Method
pc	2018.13	kPa	Joback Method
ripol	1468.00		NIST Webbook
ripol	1468.00		NIST Webbook
ripol	2046.00		NIST Webbook
ripol	2008.00		NIST Webbook
ripol	2046.00		NIST Webbook
ripol	2016.00		NIST Webbook
tb	570.30	K	Joback Method
tc	733.56	K	Joback Method
tf	280.74	K	Joback Method
vc	0.707	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	459.51	J/molxK	570.30	Joback Method
cpg	473.74	J/molxK	597.51	Joback Method
cpg	487.37	J/molxK	624.72	Joback Method
cpg	500.43	J/molxK	651.93	Joback Method
cpg	512.93	J/molxK	679.14	Joback Method
cpg	524.90	J/molxK	706.35	Joback Method
cpg	536.36	J/molxK	733.56	Joback Method
dvisc	0.0209597	Paxs	280.74	Joback Method
dvisc	0.0040712	Paxs	329.00	Joback Method
dvisc	0.0012026	Paxs	377.26	Joback Method
dvisc	0.0004685	Paxs	425.52	Joback Method
dvisc	0.0002211	Paxs	473.78	Joback Method
dvisc	0.0001199	Paxs	522.04	Joback Method
dvisc	0.0000721	Paxs	570.30	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=C40642408&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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

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