2-Decen-1-ol, (E)-

Other names:	trans-2-Decenol
	Dec-2-en-1-ol
	(2E)-2-Decen-1-ol
	(E)-2-Decen-1-ol
	trans-2-Decen-1-ol
	reans-2-Decen-1-ol
	(E)-2-Decenol
Inchi:	InChI=1S/C10H20O/c1-2-3-4-5-6-7-8-9-10-11/h8-9,11H,2-7,10H2,1H3/b9-8+
InchiKey:	QOPYYRPCXHTOQZ-CMDGGOBGSA-N
Formula:	C10H20O
SMILES:	CCCCCCCC=CCO
Mol. weight [g/mol]:	156.27
CAS:	18409-18-2

Physical Properties

Property code	Value	Unit	Source
gf	-23.28	kJ/mol	Joback Method
hf	-284.74	kJ/mol	Joback Method
hfus	25.95	kJ/mol	Joback Method
hvap	54.49	kJ/mol	Joback Method
log10ws	-3.13		Crippen Method
logp	2.895		Crippen Method
mcvol	153.330	ml/mol	McGowan Method
pc	2417.12	kPa	Joback Method
rinpol	1257.00		NIST Webbook
rinpol	1252.00		NIST Webbook
rinpol	1254.00		NIST Webbook
rinpol	1251.00		NIST Webbook
rinpol	1273.30		NIST Webbook
rinpol	1251.00		NIST Webbook
rinpol	1254.00		NIST Webbook
rinpol	1254.00		NIST Webbook
rinpol	1273.30		NIST Webbook
rinpol	1257.00		NIST Webbook
rinpol	1257.00		NIST Webbook
ripol	1792.00		NIST Webbook
ripol	1833.00		NIST Webbook

ripol	1792.00		NIST Webbook
ripol	1792.00		NIST Webbook
ripol	1819.00		NIST Webbook
ripol	1819.00		NIST Webbook
ripol	1819.00		NIST Webbook
ripol	1819.00		NIST Webbook
ripol	1823.00		NIST Webbook
ripol	1819.00		NIST Webbook
tb	524.54	K	Joback Method
tc	689.26	K	Joback Method
tf	258.20	K	Joback Method
vc	0.595	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	362.81	J/mol×K	524.54	Joback Method
cpg	375.67	J/mol×K	551.99	Joback Method
cpg	387.98	J/mol×K	579.45	Joback Method
cpg	399.77	J/mol×K	606.90	Joback Method
cpg	411.06	J/mol×K	634.36	Joback Method
cpg	421.86	J/mol×K	661.81	Joback Method
cpg	432.20	J/mol×K	689.26	Joback Method
dvisc	0.0338296	Pa×s	258.20	Joback Method
dvisc	0.0063373	Pa×s	302.59	Joback Method
dvisc	0.0018223	Pa×s	346.98	Joback Method
dvisc	0.0006952	Pa×s	391.37	Joback Method
dvisc	0.0003228	Pa×s	435.76	Joback Method
dvisc	0.0001727	Pa×s	480.15	Joback Method
dvisc	0.0001027	Pa×s	524.54	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C18409182&Units=SI

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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

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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