E5,E7-dodecadien-1-ol

Inchi: InChI=1S/C12H22O/c1-2-3-4-5-6-7-8-9-10-11-12-13/h5-8,13H,2-4,9-12H2,1H3/b6-5+,8-7
InchiKey: JUDKGQZMLJXRJX-BSWSSELBSA-N
Formula: C12H22O
SMILES: CCCCC=CC=CCCCCO
Mol. weight [g/mol]: 182.30

Physical Properties

Property code	Value	Unit	Source
gf	73.78	kJ/mol	Joback Method
hf	-208.80	kJ/mol	Joback Method
hfus	31.33	kJ/mol	Joback Method
hvap	58.90	kJ/mol	Joback Method
log10ws	-3.82		Crippen Method
logp	3.452		Crippen Method
mcvol	177.210	ml/mol	McGowan Method
pc	2115.83	kPa	Joback Method
rinpol	1537.00		NIST Webbook
rinpol	1537.00		NIST Webbook
ripol	2197.00		NIST Webbook
ripol	2197.00		NIST Webbook
ripol	2185.00		NIST Webbook
ripol	2197.00		NIST Webbook
ripol	2185.00		NIST Webbook
tb	574.46	K	Joback Method
tc	743.60	K	Joback Method
tf	275.66	K	Joback Method
vc	0.686	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	440.36	J/mol×K	574.46	Joback Method
cpg	454.17	J/mol×K	602.65	Joback Method
cpg	467.34	J/mol×K	630.84	Joback Method

cpg	479.91	J/mol×K	659.03	Joback Method
cpg	491.91	J/mol×K	687.22	Joback Method
cpg	503.37	J/mol×K	715.41	Joback Method
cpg	514.31	J/mol×K	743.60	Joback Method
dvisc	0.0214404	Pa×s	275.66	Joback Method
dvisc	0.0038100	Pa×s	325.46	Joback Method
dvisc	0.0010709	Pa×s	375.26	Joback Method
dvisc	0.0004053	Pa×s	425.06	Joback Method
dvisc	0.0001880	Pa×s	474.86	Joback Method
dvisc	0.0001009	Pa×s	524.66	Joback Method
dvisc	0.0000604	Pa×s	574.46	Joback Method

Sources

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
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=R517123&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
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