

2,5-Dimethyl-3-pentyl tetrahydrofuran

Inchi:	InChI=1S/C11H22O/c1-4-5-6-7-11-8-9(2)12-10(11)3/h9-11H,4-8H2,1-3H3
InchiKey:	DDGOPEUTQBUZFN-UHFFFAOYSA-N
Formula:	C11H22O
SMILES:	CCCCC1CC(C)OC1C
Mol. weight [g/mol]:	170.29

Physical Properties

Property code	Value	Unit	Source
gf	-23.25	kJ/mol	Joback Method
hf	-382.57	kJ/mol	Joback Method
hfus	28.30	kJ/mol	Joback Method
hvap	44.23	kJ/mol	Joback Method
log10ws	-3.39		Crippen Method
logp	3.380		Crippen Method
mcvol	160.860	ml/mol	McGowan Method
pc	2125.60	kPa	Joback Method
rinpol	1162.00		NIST Webbook
tb	483.97	K	Joback Method
tc	670.49	K	Joback Method
tf	242.72	K	Joback Method
vc	0.612	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	381.31	J/molxK	483.97	Joback Method
cpg	400.53	J/molxK	515.06	Joback Method
cpg	418.91	J/molxK	546.14	Joback Method
cpg	436.48	J/molxK	577.23	Joback Method
cpg	453.24	J/molxK	608.31	Joback Method
cpg	469.23	J/molxK	639.40	Joback Method
cpg	484.44	J/molxK	670.49	Joback Method
dvisc	0.0026255	Paxs	242.72	Joback Method
dvisc	0.0014717	Paxs	282.93	Joback Method

dvisc	0.0009528	Paxs	323.14	Joback Method
dvisc	0.0006792	Paxs	363.35	Joback Method
dvisc	0.0005179	Paxs	403.55	Joback Method
dvisc	0.0004148	Paxs	443.76	Joback Method
dvisc	0.0003447	Paxs	483.97	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=R405708&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.cheméo.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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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