

trans-2-Methyl-5H-propenylfuran

Inchi:	InChI=1S/C8H12O/c1-3-4-8-6-5-7(2)9-8/h3-8H,1-2H3/b4-3+/t7-,8-/m1/s1
InchiKey:	BJVSRZODCHFFY-ATXJSMISSA-N
Formula:	C8H12O
SMILES:	CC=CC1C=CC(C)O1
Mol. weight [g/mol]:	124.18

Physical Properties

Property code	Value	Unit	Source
gf	69.38	kJ/mol	Joback Method
hf	-125.31	kJ/mol	Joback Method
hfus	20.89	kJ/mol	Joback Method
hvap	38.11	kJ/mol	Joback Method
log10ws	-2.08		Crippen Method
logp	1.906		Crippen Method
mcvol	109.990	ml/mol	McGowan Method
pc	3228.31	kPa	Joback Method
ripol	1304.00		NIST Webbook
ripol	1304.00		NIST Webbook
tb	423.32	K	Joback Method
tc	628.07	K	Joback Method
tf	208.83	K	Joback Method
vc	0.410	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	216.97	J/molxK	423.32	Joback Method
cpg	231.80	J/molxK	457.45	Joback Method
cpg	245.80	J/molxK	491.57	Joback Method
cpg	259.02	J/molxK	525.70	Joback Method
cpg	271.49	J/molxK	559.82	Joback Method
cpg	283.24	J/molxK	593.95	Joback Method
cpg	294.31	J/molxK	628.07	Joback Method
dvisc	0.0021076	Paxs	208.83	Joback Method

dvisc	0.0011754	Paxs	244.58	Joback Method
dvisc	0.0007608	Paxs	280.33	Joback Method
dvisc	0.0005434	Paxs	316.08	Joback Method
dvisc	0.0004155	Paxs	351.82	Joback Method
dvisc	0.0003339	Paxs	387.57	Joback Method
dvisc	0.0002784	Paxs	423.32	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R334735&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.cheméo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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