

6-p-Tolyheptan-2-one

Inchi:	InChI=1S/C14H20O/c1-11-7-9-14(10-8-11)12(2)5-4-6-13(3)15/h7-10,12H,4-6H2,1-3H3
InchiKey:	URMNPIAGMIVNMU-UHFFFAOYSA-N
Formula:	C14H20O
SMILES:	CC(=O)CCCC(C)c1ccc(C)cc1
Mol. weight [g/mol]:	204.31

Physical Properties

Property code	Value	Unit	Source
gf	38.42	kJ/mol	Joback Method
hf	-225.09	kJ/mol	Joback Method
hfus	23.74	kJ/mol	Joback Method
hvap	56.05	kJ/mol	Joback Method
log10ws	-4.09		Crippen Method
logp	3.858		Crippen Method
mcvol	185.930	ml/mol	McGowan Method
pc	2113.89	kPa	Joback Method
rinpol	1561.00		NIST Webbook
rinpol	1561.00		NIST Webbook
ripol	2211.00		NIST Webbook
ripol	2211.00		NIST Webbook
tb	604.81	K	Joback Method
tc	811.67	K	Joback Method
tf	321.41	K	Joback Method
vc	0.712	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	467.19	J/molxK	604.81	Joback Method
cpg	484.06	J/molxK	639.29	Joback Method
cpg	499.97	J/molxK	673.76	Joback Method
cpg	514.95	J/molxK	708.24	Joback Method
cpg	529.04	J/molxK	742.72	Joback Method
cpg	542.27	J/molxK	777.19	Joback Method

cpg	554.69	J/molxK	811.67	Joback Method
dvisc	0.0027727	Paxs	321.41	Joback Method
dvisc	0.0013027	Paxs	368.64	Joback Method
dvisc	0.0007266	Paxs	415.88	Joback Method
dvisc	0.0004566	Paxs	463.11	Joback Method
dvisc	0.0003126	Paxs	510.34	Joback Method
dvisc	0.0002283	Paxs	557.58	Joback Method
dvisc	0.0001751	Paxs	604.81	Joback Method

Sources

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=R228907&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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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