

p-Heptylacetophenone

Other names:	4-n-Heptylacetophenone 4'-n-Heptylacetophenone Ethanone, 1-(4-heptylphenyl)- p-n-Heptylacetophenone 4'-Heptylacetophenone 1-(4-heptylphenyl)ethan-1-one
Inchi:	InChI=1S/C15H22O/c1-3-4-5-6-7-8-14-9-11-15(12-10-14)13(2)16/h9-12H,3-8H2,1-2H3
InchiKey:	UQBRZOXCKKBKDU-UHFFFAOYSA-N
Formula:	C15H22O
SMILES:	CCCCCCCc1ccc(C(C)=O)cc1
Mol. weight [g/mol]:	218.33
CAS:	37593-03-6

Physical Properties

Property code	Value	Unit	Source
gf	49.28	kJ/mol	Joback Method
hf	-240.45	kJ/mol	Joback Method
hfus	29.86	kJ/mol	Joback Method
hvap	58.67	kJ/mol	Joback Method
log10ws	-5.03		Crippen Method
logp	4.402		Crippen Method
mcvol	200.020	ml/mol	McGowan Method
pc	1925.36	kPa	Joback Method
tb	628.13	K	Joback Method
tc	828.14	K	Joback Method
tf	347.68	K	Joback Method
vc	0.773	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	518.31	J/mol×K	628.13	Joback Method
cpg	535.29	J/mol×K	661.46	Joback Method
cpg	551.33	J/mol×K	694.80	Joback Method

cpg	566.47	J/molxK	728.13	Joback Method
cpg	580.73	J/molxK	761.47	Joback Method
cpg	594.17	J/molxK	794.80	Joback Method
cpg	606.81	J/molxK	828.14	Joback Method
dvisc	0.0020914	Paxs	347.68	Joback Method
dvisc	0.0010755	Paxs	394.42	Joback Method
dvisc	0.0006368	Paxs	441.16	Joback Method
dvisc	0.0004168	Paxs	487.90	Joback Method
dvisc	0.0002938	Paxs	534.65	Joback Method
dvisc	0.0002191	Paxs	581.39	Joback Method
dvisc	0.0001707	Paxs	628.13	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=C37593036&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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