

2-(2-Hydroxy-4-methyl-phenyl)-pentan-3-one

Inchi:	InChI=1S/C12H16O2/c1-4-11(13)9(3)10-6-5-8(2)7-12(10)14/h5-7,9,14H,4H2,1-3H3
InchiKey:	XKKGHYTULRMGQQ-UHFFFAOYSA-N
Formula:	C12H16O2
SMILES:	CCC(=O)C(C)c1ccc(C)cc1O
Mol. weight [g/mol]:	192.25

Physical Properties

Property code	Value	Unit	Source
gf	-133.04	kJ/mol	Joback Method
hf	-361.12	kJ/mol	Joback Method
hfus	24.35	kJ/mol	Joback Method
hvap	64.62	kJ/mol	Joback Method
log10ws	-2.80		Crippen Method
logp	2.783		Crippen Method
mvol	163.620	ml/mol	McGowan Method
pc	2973.04	kPa	Joback Method
ripol	2620.00		NIST Webbook
ripol	2620.00		NIST Webbook
tb	639.67	K	Joback Method
tc	863.30	K	Joback Method
tf	410.59	K	Joback Method
vc	0.566	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	422.73	J/molxK	639.67	Joback Method
cpg	436.61	J/molxK	676.94	Joback Method
cpg	449.62	J/molxK	714.21	Joback Method
cpg	461.84	J/molxK	751.48	Joback Method
cpg	473.33	J/molxK	788.76	Joback Method
cpg	484.20	J/molxK	826.03	Joback Method
cpg	494.50	J/molxK	863.30	Joback Method
dvisc	0.0010385	Paxs	410.59	Joback Method

dvisc	0.0004332	Paxs	448.77	Joback Method
dvisc	0.0002073	Paxs	486.95	Joback Method
dvisc	0.0001104	Paxs	525.13	Joback Method
dvisc	0.0000640	Paxs	563.31	Joback Method
dvisc	0.0000398	Paxs	601.49	Joback Method
dvisc	0.0000262	Paxs	639.67	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=R326071&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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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