

2-Butanone, 4-(4-hydroxy-3-methoxyphenyl)-

Other names:	(4-Hydroxy-3-methoxyphenyl)ethyl methyl ketone [0]-Paradol Vanillylacetone Zingerone Zingiberone 3-Methoxy-4-hydroxybenzylacetone 4-(4-Hydroxy-3-methoxyphenyl)-2-butanone 4-Hydroxy-3-methoxybenzylacetone Gingerone NSC 15335 zingerone [3-(4-hydroxy-3-methoxyphenyl)butan-2-one] Zingerone (vanillyl acetone) 4-(4-hydroxy-3-methoxyphenyl)butan-2-one
Inchi:	InChI=1S/C11H14O3/c1-8(12)3-4-9-5-6-10(13)11(7-9)14-2/h5-7,13H,3-4H2,1-2H3
InchiKey:	OJYLAHXKWMRDGS-UHFFFAOYSA-N
Formula:	C11H14O3
SMILES:	<chem>COc1cc(CCC(C)=O)ccc1O</chem>
Mol. weight [g/mol]:	194.23
CAS:	122-48-5

Physical Properties

Property code	Value	Unit	Source
gf	-244.02	kJ/mol	Joback Method
hf	-467.42	kJ/mol	Joback Method
hfus	26.47	kJ/mol	Joback Method
hvap	65.19	kJ/mol	Joback Method
log10ws	-2.06		Crippen Method
logp	1.922		Crippen Method
mcvol	155.400	ml/mol	McGowan Method
pc	3217.33	kPa	Joback Method
rinpol	1645.00		NIST Webbook
rinpol	1649.00		NIST Webbook
rinpol	1625.00		NIST Webbook
rinpol	1640.00		NIST Webbook
rinpol	1625.00		NIST Webbook
rinpol	1607.00		NIST Webbook
rinpol	1656.00		NIST Webbook

ripol	1653.00		NIST Webbook
ripol	1596.00		NIST Webbook
ripol	1625.00		NIST Webbook
ripol	1648.00		NIST Webbook
ripol	1635.00		NIST Webbook
ripol	2826.00		NIST Webbook
ripol	2790.00		NIST Webbook
ripol	2790.00		NIST Webbook
ripol	2779.00		NIST Webbook
ripol	2751.00		NIST Webbook
ripol	2786.00		NIST Webbook
ripol	2786.00		NIST Webbook
ripol	2779.00		NIST Webbook
ripol	2829.00		NIST Webbook
ripol	2829.00		NIST Webbook
ripol	2829.00		NIST Webbook
ripol	2771.00		NIST Webbook
ripol	2786.00		NIST Webbook
tb	639.65	K	Joback Method
tc	859.98	K	Joback Method
tf	436.55	K	Joback Method
vc	0.533	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	397.49	J/molxK	639.65	Joback Method
cpg	453.72	J/molxK	823.26	Joback Method
cpg	443.76	J/molxK	786.54	Joback Method
cpg	433.22	J/molxK	749.81	Joback Method
cpg	422.03	J/molxK	713.09	Joback Method
cpg	410.14	J/molxK	676.37	Joback Method
cpg	463.15	J/molxK	859.98	Joback Method
dvisc	0.0000247	Paxs	639.65	Joback Method
dvisc	0.0000357	Paxs	605.80	Joback Method
dvisc	0.0000539	Paxs	571.95	Joback Method
dvisc	0.0000856	Paxs	538.10	Joback Method
dvisc	0.0001447	Paxs	504.25	Joback Method
dvisc	0.0002638	Paxs	470.40	Joback Method
dvisc	0.0005280	Paxs	436.55	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=C122485&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
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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