

# 4-(phenylmethoxy)-«gamma»-valerolactone

<b>Inchi:</b>	InChI=1S/C12H14O3/c1-9-11(7-12(13)15-9)14-8-10-5-3-2-4-6-10/h2-6,9,11H,7-8H2,1H3
<b>InchiKey:</b>	AKWGWVSTXAZVAU-UHFFFAOYSA-N
<b>Formula:</b>	C12H14O3
<b>SMILES:</b>	CC1OC(=O)CC1OCc1ccccc1
<b>Mol. weight [g/mol]:</b>	206.24

## Physical Properties

Property code	Value	Unit	Source
gf	-122.30	kJ/mol	Joback Method
hf	-416.26	kJ/mol	Joback Method
hfus	24.56	kJ/mol	Joback Method
hvap	55.70	kJ/mol	Joback Method
log10ws	-2.51		Crippen Method
logp	1.907		Crippen Method
mcvol	158.630	ml/mol	McGowan Method
pc	2820.33	kPa	Joback Method
ripol	2616.00		NIST Webbook
tb	628.44	K	Joback Method
tc	868.13	K	Joback Method
tf	375.10	K	Joback Method
vc	0.586	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	425.27	J/molxK	628.44	Joback Method
cpg	443.42	J/molxK	668.39	Joback Method
cpg	460.35	J/molxK	708.34	Joback Method
cpg	476.07	J/molxK	748.28	Joback Method
cpg	490.58	J/molxK	788.23	Joback Method
cpg	503.86	J/molxK	828.18	Joback Method
cpg	515.92	J/molxK	868.13	Joback Method

# Sources

<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R321447&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R321447&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>ripol:</b>	Polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/85-502-0/4-phenylmethoxy-gamma-valerolactone.pdf>

Generated by Cheméo on 2024-04-26 14:43:28.947970116 +0000 UTC m=+16431857.868547442.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.