

# 4-ethoxycarbonyl-«gamma»-butanolactone

<b>Inchi:</b>	InChI=1S/C7H10O4/c1-2-10-7(9)5-3-6(8)11-4-5/h5H,2-4H2,1H3
<b>InchiKey:</b>	FESAUDRCHNHLNK-UHFFFAOYSA-N
<b>Formula:</b>	C7H10O4
<b>SMILES:</b>	CCOC(=O)C1COC(=O)C1
<b>Mol. weight [g/mol]:</b>	158.15

## Physical Properties

Property code	Value	Unit	Source
gf	-398.02	kJ/mol	Joback Method
hf	-641.83	kJ/mol	Joback Method
hfus	18.10	kJ/mol	Joback Method
hvap	49.35	kJ/mol	Joback Method
log10ws	-0.13		Crippen Method
logp	0.113		Crippen Method
mvol	113.510	ml/mol	McGowan Method
pc	3727.11	kPa	Joback Method
ripol	2241.00		NIST Webbook
ripol	2241.00		NIST Webbook
tb	545.90	K	Joback Method
tc	767.11	K	Joback Method
tf	346.50	K	Joback Method
vc	0.420	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	275.48	J/mol×K	545.90	Joback Method
cpg	288.68	J/mol×K	582.77	Joback Method
cpg	301.27	J/mol×K	619.64	Joback Method
cpg	313.22	J/mol×K	656.50	Joback Method
cpg	324.51	J/mol×K	693.37	Joback Method
cpg	335.12	J/mol×K	730.24	Joback Method
cpg	345.03	J/mol×K	767.11	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R336835&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R336835&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</a>
<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>

# 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>hvp:</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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>ripl:</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

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