

# 4-Ethylbenzoic acid, cyclobutyl ester

<b>Inchi:</b>	InChI=1S/C13H16O2/c1-2-10-6-8-11(9-7-10)13(14)15-12-4-3-5-12/h6-9,12H,2-5H2,1H3
<b>InchiKey:</b>	LZFCLOXJWLIITN-UHFFFAOYSA-N
<b>Formula:</b>	C13H16O2
<b>SMILES:</b>	CCc1ccc(C(=O)OC2CCC2)cc1
<b>Mol. weight [g/mol]:</b>	204.26

## Physical Properties

Property code	Value	Unit	Source
gf	-23.91	kJ/mol	Joback Method
hf	-264.75	kJ/mol	Joback Method
hfus	21.90	kJ/mol	Joback Method
hvap	56.71	kJ/mol	Joback Method
log10ws	-3.78		Crippen Method
logp	2.958		Crippen Method
mvol	166.850	ml/mol	McGowan Method
pc	2632.55	kPa	Joback Method
rinpol	1641.20		NIST Webbook
rinpol	1641.20		NIST Webbook
tb	615.80	K	Joback Method
tc	841.18	K	Joback Method
tf	361.79	K	Joback Method
vc	0.628	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	430.12	J/molxK	615.80	Joback Method
cpg	447.15	J/molxK	653.36	Joback Method
cpg	463.06	J/molxK	690.93	Joback Method
cpg	477.90	J/molxK	728.49	Joback Method
cpg	491.71	J/molxK	766.05	Joback Method
cpg	504.53	J/molxK	803.62	Joback Method
cpg	516.43	J/molxK	841.18	Joback Method
dvisc	0.0018557	Paxs	361.79	Joback Method

dvisc	0.0011736	Paxs	404.12	Joback Method
dvisc	0.0008095	Paxs	446.46	Joback Method
dvisc	0.0005955	Paxs	488.79	Joback Method
dvisc	0.0004601	Paxs	531.13	Joback Method
dvisc	0.0003692	Paxs	573.46	Joback Method
dvisc	0.0003054	Paxs	615.80	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=U292196&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U292196&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>dvisc:</b>	Dynamic viscosity
<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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-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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