

# Phthalic acid, ethyl 5-ethyl-1,3-dioxan-5-yl ester

<b>Inchi:</b>	InChI=1S/C17H22O6/c1-3-17(9-20-12-21-10-17)11-23-16(19)14-8-6-5-7-13(14)15(18)22
<b>InchiKey:</b>	JTPBZNSGYBLDSK-UHFFFAOYSA-N
<b>Formula:</b>	C17H22O6
<b>SMILES:</b>	CCOC(=O)c1ccccc1C(=O)OCC1(CC)COCOC1
<b>Mol. weight [g/mol]:</b>	322.35

## Physical Properties

Property code	Value	Unit	Source
gf	-426.08	kJ/mol	Joback Method
hf	-853.19	kJ/mol	Joback Method
hfus	40.51	kJ/mol	Joback Method
hvap	82.98	kJ/mol	Joback Method
log10ws	-3.21		Crippen Method
logp	2.421		Crippen Method
mcvol	242.390	ml/mol	McGowan Method
pc	2047.46	kPa	Joback Method
rinpol	2435.00		NIST Webbook
rinpol	2435.00		NIST Webbook
tb	846.29	K	Joback Method
tc	1075.41	K	Joback Method
tf	549.03	K	Joback Method
vc	0.900	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	757.69	J/mol×K	846.29	Joback Method
cpg	774.48	J/mol×K	884.48	Joback Method
cpg	790.54	J/mol×K	922.66	Joback Method
cpg	805.98	J/mol×K	960.85	Joback Method
cpg	820.92	J/mol×K	999.04	Joback Method
cpg	835.49	J/mol×K	1037.22	Joback Method
cpg	849.79	J/mol×K	1075.41	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U415477&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415477&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>

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