

# 4-Ethylbenzoic acid, octyl ester

<b>Inchi:</b>	InChI=1S/C17H26O2/c1-3-5-6-7-8-9-14-19-17(18)16-12-10-15(4-2)11-13-16/h10-13H,3-9
<b>InchiKey:</b>	PXGCAPRMDJWYHP-UHFFFAOYSA-N
<b>Formula:</b>	C17H26O2
<b>SMILES:</b>	CCCCCCCCOC(=O)c1ccc(CC)cc1
<b>Mol. weight [g/mol]:</b>	262.39

## Physical Properties

Property code	Value	Unit	Source
gf	-38.88	kJ/mol	Joback Method
hf	-413.95	kJ/mol	Joback Method
hfus	36.23	kJ/mol	Joback Method
hvap	65.53	kJ/mol	Joback Method
log10ws	-5.45		Crippen Method
logp	4.766		Crippen Method
mcvol	234.070	ml/mol	McGowan Method
pc	1615.47	kPa	Joback Method
rinpola	2006.60		NIST Webbook
rinpola	2006.60		NIST Webbook
tb	696.31	K	Joback Method
tc	890.56	K	Joback Method
tf	392.45	K	Joback Method
vc	0.903	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	654.61	J/molxK	696.31	Joback Method
cpg	671.96	J/molxK	728.69	Joback Method
cpg	688.36	J/molxK	761.06	Joback Method
cpg	703.83	J/molxK	793.44	Joback Method
cpg	718.39	J/molxK	825.81	Joback Method
cpg	732.07	J/molxK	858.19	Joback Method
cpg	744.91	J/molxK	890.56	Joback Method
dvisc	0.0013343	Paxs	392.45	Joback Method

dvisc	0.0006905	Paxs	443.09	Joback Method
dvisc	0.0004091	Paxs	493.74	Joback Method
dvisc	0.0002671	Paxs	544.38	Joback Method
dvisc	0.0001876	Paxs	595.02	Joback Method
dvisc	0.0001392	Paxs	645.67	Joback Method
dvisc	0.0001079	Paxs	696.31	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=U292345&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U292345&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.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

## Legend

<b>cp<sub>g</sub>:</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>log<sub>10</sub>ws:</b>	Log <sub>10</sub> 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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