

# 4-Ethylbenzoic acid, 2-methyloct-5-yn-4-yl ester

Inchi:	InChI=1S/C18H24O2/c1-5-7-8-17(13-14(3)4)20-18(19)16-11-9-15(6-2)10-12-16/h9-12,14
InchiKey:	ZMVHFIKUBUHYDD-UHFFFAOYSA-N
Formula:	C18H24O2
SMILES:	CCC#CC(CC(C)C)OC(=O)c1ccc(CC)cc1
Mol. weight [g/mol]:	272.38

## Physical Properties

Property code	Value	Unit	Source
gf	167.46	kJ/mol	Joback Method
hf	-172.85	kJ/mol	Joback Method
hfus	34.89	kJ/mol	Joback Method
hvap	69.13	kJ/mol	Joback Method
log10ws	-5.53		Crippen Method
logp	4.234		Crippen Method
mcvol	239.560	ml/mol	McGowan Method
pc	1724.59	kPa	Joback Method
rinsol	1965.90		NIST Webbook
tb	727.31	K	Joback Method
tc	944.59	K	Joback Method
tf	479.82	K	Joback Method
vc	0.909	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	665.97	J/molxK	727.31	Joback Method
cpg	683.82	J/molxK	763.52	Joback Method
cpg	700.53	J/molxK	799.74	Joback Method
cpg	716.13	J/molxK	835.95	Joback Method
cpg	730.66	J/molxK	872.16	Joback Method
cpg	744.15	J/molxK	908.37	Joback Method
cpg	756.64	J/molxK	944.59	Joback Method

# Sources

<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=U292545&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U292545&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>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</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>h vap:</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>m cvol:</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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