

# 2-Ethylbutyric acid, 4-chloro-3-methylphenyl ester

Inchi:	InChI=1S/C13H17ClO2/c1-4-10(5-2)13(15)16-11-6-7-12(14)9(3)8-11/h6-8,10H,4-5H2,1-3
InchiKey:	GFMWNOYWKNWLOS-UHFFFAOYSA-N
Formula:	C13H17ClO2
SMILES:	CCC(CC)C(=O)Oc1ccc(Cl)c(C)c1
Mol. weight [g/mol]:	240.73

## Physical Properties

Property code	Value	Unit	Source
gf	-96.56	kJ/mol	Joback Method
hf	-363.88	kJ/mol	Joback Method
hfus	26.15	kJ/mol	Joback Method
hvap	61.28	kJ/mol	Joback Method
log10ws	-4.38		Crippen Method
logp	3.990		Crippen Method
mcvol	189.950	ml/mol	McGowan Method
pc	2167.36	kPa	Joback Method
rinsol	1632.00		NIST Webbook
tb	646.76	K	Joback Method
tc	859.26	K	Joback Method
tf	374.81	K	Joback Method
vc	0.723	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	471.14	J/molxK	646.76	Joback Method
cpg	536.46	J/molxK	823.84	Joback Method
cpg	525.05	J/molxK	788.43	Joback Method
cpg	512.83	J/molxK	753.01	Joback Method
cpg	499.79	J/molxK	717.59	Joback Method
cpg	485.89	J/molxK	682.18	Joback Method
cpg	547.07	J/molxK	859.26	Joback Method
dvisc	0.0001437	Paxs	646.76	Joback Method
dvisc	0.0001823	Paxs	601.43	Joback Method

dvisc	0.0002405	Paxs	556.11	Joback Method
dvisc	0.0003332	Paxs	510.78	Joback Method
dvisc	0.0004918	Paxs	465.46	Joback Method
dvisc	0.0007896	Paxs	420.13	Joback Method
dvisc	0.0014216	Paxs	374.81	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=U369928&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U369928&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>
<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>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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