

# Terephthalic acid, 2-chloropropyl ethyl ester

<b>Inchi:</b>	InChI=1S/C13H15ClO4/c1-3-17-12(15)10-4-6-11(7-5-10)13(16)18-8-9(2)14/h4-7,9H,3,8H
<b>InchiKey:</b>	JSRPCJSBWSJEIY-UHFFFAOYSA-N
<b>Formula:</b>	C13H15ClO4
<b>SMILES:</b>	CCOC(=O)c1ccc(C(=O)OCC(C)Cl)cc1
<b>Mol. weight [g/mol]:</b>	270.71

## Physical Properties

Property code	Value	Unit	Source
gf	-320.85	kJ/mol	Joback Method
hf	-597.21	kJ/mol	Joback Method
hfus	29.33	kJ/mol	Joback Method
hvap	69.78	kJ/mol	Joback Method
log10ws	-3.48		Crippen Method
logp	2.647		Crippen Method
mcvol	197.390	ml/mol	McGowan Method
pc	2295.91	kPa	Joback Method
rinpol	1951.00		NIST Webbook
tb	718.07	K	Joback Method
tc	933.75	K	Joback Method
tf	434.45	K	Joback Method
vc	0.747	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	513.64	J/molxK	718.07	Joback Method
cpg	526.77	J/molxK	754.02	Joback Method
cpg	538.97	J/molxK	789.96	Joback Method
cpg	550.27	J/molxK	825.91	Joback Method
cpg	560.66	J/molxK	861.85	Joback Method
cpg	570.15	J/molxK	897.80	Joback Method
cpg	578.75	J/molxK	933.75	Joback Method
dvisc	0.0010572	Paxs	434.45	Joback Method
dvisc	0.0006062	Paxs	481.72	Joback Method

dvisc	0.0003839	Paxs	528.99	Joback Method
dvisc	0.0002621	Paxs	576.26	Joback Method
dvisc	0.0001896	Paxs	623.53	Joback Method
dvisc	0.0001435	Paxs	670.80	Joback Method
dvisc	0.0001127	Paxs	718.07	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U356167&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U356167&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>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</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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