

# Isovaleric acid, 2,3,4,6-tetrachlorophenyl ester

<b>Inchi:</b>	InChI=1S/C11H10Cl4O2/c1-5(2)3-8(16)17-11-7(13)4-6(12)9(14)10(11)15/h4-5H,3H2,1-2
<b>InchiKey:</b>	FGPHMRAXOBSQAS-UHFFFAOYSA-N
<b>Formula:</b>	C11H10Cl4O2
<b>SMILES:</b>	CC(C)CC(=O)Oc1c(Cl)cc(Cl)c(Cl)c1Cl
<b>Mol. weight [g/mol]:</b>	316.01

## Physical Properties

Property code	Value	Unit	Source
gf	-168.45	kJ/mol	Joback Method
hf	-392.76	kJ/mol	Joback Method
hfus	32.78	kJ/mol	Joback Method
hvap	71.31	kJ/mol	Joback Method
log10ws	-5.54		Crippen Method
logp	5.252		Crippen Method
mcvol	198.490	ml/mol	McGowan Method
pc	2274.07	kPa	Joback Method
rinsol	1910.00		NIST Webbook
tb	723.25	K	Joback Method
tc	954.16	K	Joback Method
tf	467.07	K	Joback Method
vc	0.757	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	439.68	J/molxK	723.25	Joback Method
cpg	449.98	J/molxK	761.73	Joback Method
cpg	459.53	J/molxK	800.22	Joback Method
cpg	468.34	J/molxK	838.70	Joback Method
cpg	476.40	J/molxK	877.19	Joback Method
cpg	483.74	J/molxK	915.67	Joback Method
cpg	490.35	J/molxK	954.16	Joback Method
dvisc	0.0007626	Paxs	467.07	Joback Method
dvisc	0.0005079	Paxs	509.77	Joback Method

dvisc	0.0003603	Paxs	552.46	Joback Method
dvisc	0.0002684	Paxs	595.16	Joback Method
dvisc	0.0002080	Paxs	637.86	Joback Method
dvisc	0.0001665	Paxs	680.55	Joback Method
dvisc	0.0001368	Paxs	723.25	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U360659&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U360659&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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