

# Valeric acid, 3,4-dichlorophenyl ester

<b>Inchi:</b>	InChI=1S/C11H12Cl2O2/c1-2-3-4-11(14)15-8-5-6-9(12)10(13)7-8/h5-7H,2-4H2,1H3
<b>InchiKey:</b>	YNABTDZJUAFPV-UHFFFAOYSA-N
<b>Formula:</b>	C11H12Cl2O2
<b>SMILES:</b>	CCCCC(=O)Oc1ccc(Cl)c(Cl)c1
<b>Mol. weight [g/mol]:</b>	247.12

## Physical Properties

Property code	Value	Unit	Source
gf	-122.89	kJ/mol	Joback Method
hf	-333.06	kJ/mol	Joback Method
hfus	28.69	kJ/mol	Joback Method
hvap	61.61	kJ/mol	Joback Method
log10ws	-4.41		Crippen Method
logp	4.089		Crippen Method
mvol	174.010	ml/mol	McGowan Method
pc	2497.50	kPa	Joback Method
rinpol	1683.00		NIST Webbook
rinpol	1683.00		NIST Webbook
tb	638.87	K	Joback Method
tc	857.81	K	Joback Method
tf	397.19	K	Joback Method
vc	0.665	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	396.95	J/molxK	638.87	Joback Method
cpg	450.59	J/molxK	821.32	Joback Method
cpg	441.31	J/molxK	784.83	Joback Method
cpg	431.31	J/molxK	748.34	Joback Method
cpg	420.60	J/molxK	711.85	Joback Method
cpg	409.15	J/molxK	675.36	Joback Method
cpg	459.17	J/molxK	857.81	Joback Method
dvisc	0.0001786	Paxs	638.87	Joback Method

dvisc	0.0002202	Paxs	598.59	Joback Method
dvisc	0.0002798	Paxs	558.31	Joback Method
dvisc	0.0003691	Paxs	518.03	Joback Method
dvisc	0.0005101	Paxs	477.75	Joback Method
dvisc	0.0007483	Paxs	437.47	Joback Method
dvisc	0.0011863	Paxs	397.19	Joback Method

## Sources

<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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U307988&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U307988&amp;Units=SI</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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