

# Cyclohexanecarboxylic acid isopropyl ester

<b>Other names:</b>	Cyclohexanecarboxylic acid, 1-methylethyl ester isopropyl cyclohexanecarboxylate
<b>Inchi:</b>	InChI=1S/C10H18O2/c1-8(2)12-10(11)9-6-4-3-5-7-9/h8-9H,3-7H2,1-2H3
<b>InchiKey:</b>	PMQZNGSMBAGPRU-UHFFFAOYSA-N
<b>Formula:</b>	C10H18O2
<b>SMILES:</b>	CC(C)OC(=O)C1CCCCC1
<b>Mol. weight [g/mol]:</b>	170.25
<b>CAS:</b>	6553-80-6

## Physical Properties

Property code	Value	Unit	Source
gf	-178.59	kJ/mol	Joback Method
hf	-445.49	kJ/mol	Joback Method
hfus	12.75	kJ/mol	Joback Method
hvap	47.05	kJ/mol	Joback Method
log10ws	-2.64		Crippen Method
logp	2.518		Crippen Method
mvol	148.340	ml/mol	McGowan Method
pc	2715.50	kPa	Joback Method
tb	523.60	K	Joback Method
tc	733.51	K	Joback Method
tf	267.00	K	Joback Method
vc	0.546	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	355.54	J/mol×K	523.60	Joback Method
cpg	437.82	J/mol×K	698.52	Joback Method
cpg	423.20	J/mol×K	663.54	Joback Method
cpg	407.67	J/mol×K	628.55	Joback Method
cpg	391.23	J/mol×K	593.57	Joback Method
cpg	373.86	J/mol×K	558.58	Joback Method
cpg	451.55	J/mol×K	733.51	Joback Method

dvisc	0.0002279	Paxs	523.60	Joback Method
dvisc	0.0003085	Paxs	480.83	Joback Method
dvisc	0.0004430	Paxs	438.07	Joback Method
dvisc	0.0006880	Paxs	395.30	Joback Method
dvisc	0.0011889	Paxs	352.53	Joback Method
dvisc	0.0023895	Paxs	309.77	Joback Method
dvisc	0.0060058	Paxs	267.00	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=C6553806&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C6553806&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>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>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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