

# C7H10O4

<b>Inchi:</b>	InChI=1S/C7H10O4/c1-10-6(8)4-3-5(4)7(9)11-2/h4-5H,3H2,1-2H3
<b>InchiKey:</b>	JBVOSZYUSFDYIN-UHFFFAOYSA-N
<b>Formula:</b>	C7H10O4
<b>SMILES:</b>	COC(=O)C1CC1C(=O)OC
<b>Mol. weight [g/mol]:</b>	158.15
<b>CAS:</b>	826-34-6

## Physical Properties

Property code	Value	Unit	Source
gf	-406.74	kJ/mol	Joback Method
hf	-624.95	kJ/mol	Joback Method
hfus	18.67	kJ/mol	Joback Method
hvap	49.09	kJ/mol	Joback Method
log10ws	0.11		Crippen Method
logp	-0.032		Crippen Method
mcvol	113.510	ml/mol	McGowan Method
pc	3456.14	kPa	Joback Method
tb	514.21	K	Joback Method
tc	713.66	K	Joback Method
tf	326.67	K	Joback Method
vc	0.431	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	264.77	J/molxK	514.21	Joback Method
cpg	276.25	J/molxK	547.45	Joback Method
cpg	287.21	J/molxK	580.69	Joback Method
cpg	297.65	J/molxK	613.94	Joback Method
cpg	307.57	J/molxK	647.18	Joback Method
cpg	316.97	J/molxK	680.42	Joback Method
cpg	325.87	J/molxK	713.66	Joback Method
dvisc	0.0015664	Paxs	326.67	Joback Method
dvisc	0.0012175	Paxs	357.93	Joback Method

dvisc	0.0009854	Paxs	389.18	Joback Method
dvisc	0.0008230	Paxs	420.44	Joback Method
dvisc	0.0007048	Paxs	451.70	Joback Method
dvisc	0.0006157	Paxs	482.95	Joback Method
dvisc	0.0005468	Paxs	514.21	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C826346&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C826346&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>mccvol:</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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