

# Fumaric acid, 4-chlorobenzyl dec-2-yl ester

<b>Inchi:</b>	InChI=1S/C21H29ClO4/c1-3-4-5-6-7-8-9-17(2)26-21(24)15-14-20(23)25-16-18-10-12-19
<b>InchiKey:</b>	NVOYAEUJZJEODL-CCEZHUSRSA-N
<b>Formula:</b>	C21H29ClO4
<b>SMILES:</b>	CCCCCCCCC(C)OC(=O)C=CC(=O)OCc1ccc(Cl)cc1
<b>Mol. weight [g/mol]:</b>	380.91

## Physical Properties

Property code	Value	Unit	Source
gf	-173.27	kJ/mol	Joback Method
hf	-645.11	kJ/mol	Joback Method
hfus	50.25	kJ/mol	Joback Method
hvap	87.54	kJ/mol	Joback Method
log10ws	-6.59		Crippen Method
logp	5.622		Crippen Method
mvol	305.810	ml/mol	McGowan Method
pc	1272.78	kPa	Joback Method
rinpol	2699.00		NIST Webbook
rinpol	2699.00		NIST Webbook
tb	905.27	K	Joback Method
tc	1116.93	K	Joback Method
tf	519.53	K	Joback Method
vc	1.175	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	937.13	J/molxK	905.27	Joback Method
cpg	1000.40	J/molxK	1081.65	Joback Method
cpg	989.85	J/molxK	1046.37	Joback Method
cpg	978.29	J/molxK	1011.10	Joback Method
cpg	965.68	J/molxK	975.82	Joback Method
cpg	951.97	J/molxK	940.55	Joback Method
cpg	1009.98	J/molxK	1116.93	Joback Method
dvisc	0.0000326	Paxs	905.27	Joback Method

dvisc	0.0000427	Paxs	840.98	Joback Method
dvisc	0.0000585	Paxs	776.69	Joback Method
dvisc	0.0000847	Paxs	712.40	Joback Method
dvisc	0.0001322	Paxs	648.11	Joback Method
dvisc	0.0002273	Paxs	583.82	Joback Method
dvisc	0.0004472	Paxs	519.53	Joback Method

## Sources

<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=U405923&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405923&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>

## 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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