

# Fumaric acid, di(dec-4-enyl) ester

<b>Inchi:</b>	InChI=1S/C24H40O4/c1-3-5-7-9-11-13-15-17-21-27-23(25)19-20-24(26)28-22-18-16-14-
<b>InchiKey:</b>	WBZFCFYLUHDFZ-KFADKCKJSA-N
<b>Formula:</b>	C24H40O4
<b>SMILES:</b>	CCCCC=CCCCOC(=O)C=CC(=O)OCCCC=CCCCC
<b>Mol. weight [g/mol]:</b>	392.57

## Physical Properties

Property code	Value	Unit	Source
gf	-75.98	kJ/mol	Joback Method
hf	-676.63	kJ/mol	Joback Method
hfus	64.10	kJ/mol	Joback Method
hvap	87.20	kJ/mol	Joback Method
log10ws	-7.15		Crippen Method
logp	6.462		Crippen Method
mvol	351.000	ml/mol	McGowan Method
pc	932.92	kPa	Joback Method
rinpol	2774.00		NIST Webbook
tb	913.58	K	Joback Method
tc	1118.49	K	Joback Method
tf	489.32	K	Joback Method
vc	1.367	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1136.04	J/molxK	913.58	Joback Method
cpg	1154.53	J/molxK	947.73	Joback Method
cpg	1171.96	J/molxK	981.88	Joback Method
cpg	1188.41	J/molxK	1016.03	Joback Method
cpg	1203.93	J/molxK	1050.19	Joback Method
cpg	1218.61	J/molxK	1084.34	Joback Method
cpg	1232.52	J/molxK	1118.49	Joback Method
dvisc	0.0004244	Paxs	489.32	Joback Method
dvisc	0.0001841	Paxs	560.03	Joback Method

dvisc	0.0000964	Paxs	630.74	Joback Method
dvisc	0.0000575	Paxs	701.45	Joback Method
dvisc	0.0000377	Paxs	772.16	Joback Method
dvisc	0.0000265	Paxs	842.87	Joback Method
dvisc	0.0000197	Paxs	913.58	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.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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U348953&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U348953&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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