

# Fumaric acid, monoamide, N,N-dimethyl-, 2-ethylhexyl ester

Inchi:	InChI=1S/C14H25NO3/c1-5-7-8-12(6-2)11-18-14(17)10-9-13(16)15(3)4/h9-10,12H,5-8,1
InchiKey:	PMOFUGINNHITNZ-MDZDMXLPSA-N
Formula:	C14H25NO3
SMILES:	CCCCC(CC)COC(=O)C=CC(=O)N(C)C
Mol. weight [g/mol]:	255.35

## Physical Properties

Property code	Value	Unit	Source
gf	-107.28	kJ/mol	Joback Method
hf	-510.20	kJ/mol	Joback Method
hfus	36.10	kJ/mol	Joback Method
hvap	64.27	kJ/mol	Joback Method
log10ws	-2.50		Crippen Method
logp	2.390		Crippen Method
mcvol	222.810	ml/mol	McGowan Method
pc	1743.37	kPa	Joback Method
rinpola	2062.00		NIST Webbook
rinpola	2062.00		NIST Webbook
tb	666.04	K	Joback Method
tc	848.98	K	Joback Method
tf	382.02	K	Joback Method
vc	0.842	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	611.90	J/molxK	666.04	Joback Method
cpg	627.81	J/molxK	696.53	Joback Method
cpg	642.90	J/molxK	727.02	Joback Method
cpg	657.20	J/molxK	757.51	Joback Method
cpg	670.74	J/molxK	788.00	Joback Method
cpg	683.54	J/molxK	818.49	Joback Method
cpg	695.64	J/molxK	848.98	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U357503&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U357503&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>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>hvp:</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>rinp:</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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