

# Fumaric acid, 4-chlorobenzyl 2-ethylhexyl ester

Inchi:	InChI=1S/C19H25ClO4/c1-3-5-6-15(4-2)13-23-18(21)11-12-19(22)24-14-16-7-9-17(20)10
InchiKey:	BIDFCDNQKMJUNC-VAWYXSNFSA-N
Formula:	C19H25ClO4
SMILES:	CCCCC(CC)COC(=O)C=CC(=O)OCc1ccc(Cl)cc1
Mol. weight [g/mol]:	352.85

## Physical Properties

Property code	Value	Unit	Source
gf	-190.11	kJ/mol	Joback Method
hf	-603.83	kJ/mol	Joback Method
hfus	45.07	kJ/mol	Joback Method
hvap	83.09	kJ/mol	Joback Method
log10ws	-5.40		Crippen Method
logp	4.699		Crippen Method
mvol	277.630	ml/mol	McGowan Method
pc	1466.85	kPa	Joback Method
rinpol	2516.00		NIST Webbook
rinpol	2516.00		NIST Webbook
tb	859.51	K	Joback Method
tc	1070.28	K	Joback Method
tf	496.99	K	Joback Method
vc	1.062	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	819.88	J/molxK	859.51	Joback Method
cpg	834.30	J/molxK	894.64	Joback Method
cpg	847.65	J/molxK	929.77	Joback Method
cpg	859.96	J/molxK	964.89	Joback Method
cpg	871.26	J/molxK	1000.02	Joback Method
cpg	881.61	J/molxK	1035.15	Joback Method
cpg	891.02	J/molxK	1070.28	Joback Method
dvisc	0.0005579	Paxs	496.99	Joback Method

dvisc	0.0002898	Paxs	557.41	Joback Method
dvisc	0.0001711	Paxs	617.83	Joback Method
dvisc	0.0001109	Paxs	678.25	Joback Method
dvisc	0.0000772	Paxs	738.67	Joback Method
dvisc	0.0000568	Paxs	799.09	Joback Method
dvisc	0.0000436	Paxs	859.51	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U405919&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405919&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>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

Latest version available from:

<https://www.chemeo.com/cid/97-783-6/Fumaric-acid-4-chlorobenzyl-2-ethylhexyl-ester.pdf>

Generated by Cheméo on 2024-05-03 11:52:05.962585299 +0000 UTC m=+17026374.883162620.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.