

Fumaric acid, 4-methoxyphenyl 2-ethylhexyl ester

Inchi:	InChI=1S/C19H26O5/c1-4-6-7-15(5-2)14-23-18(20)12-13-19(21)24-17-10-8-16(22-3)9-1
InchiKey:	HQIIUFINZJZBAF-OUKQBFOZSA-N
Formula:	C19H26O5
SMILES:	CCCCC(CC)COC(=O)C=CC(=O)Oc1ccc(OC)cc1
Mol. weight [g/mol]:	334.41

Physical Properties

Property code	Value	Unit	Source
gf	-283.18	kJ/mol	Joback Method
hf	-720.31	kJ/mol	Joback Method
hfus	42.06	kJ/mol	Joback Method
hvap	81.12	kJ/mol	Joback Method
log10ws	-4.57		Crippen Method
logp	3.916		Crippen Method
mcvol	271.260	ml/mol	McGowan Method
pc	1489.58	kPa	Joback Method
rinpol	2483.00		NIST Webbook
rinpol	2483.00		NIST Webbook
tb	844.50	K	Joback Method
tc	1051.13	K	Joback Method
tf	489.30	K	Joback Method
vc	1.032	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	822.17	J/molxK	844.50	Joback Method
cpg	837.28	J/molxK	878.94	Joback Method
cpg	851.25	J/molxK	913.38	Joback Method
cpg	864.10	J/molxK	947.82	Joback Method
cpg	875.85	J/molxK	982.25	Joback Method
cpg	886.52	J/molxK	1016.69	Joback Method
cpg	896.14	J/molxK	1051.13	Joback Method
dvisc	0.0004795	Paxs	489.30	Joback Method

dvisc	0.0002499	Paxs	548.50	Joback Method
dvisc	0.0001479	Paxs	607.70	Joback Method
dvisc	0.0000960	Paxs	666.90	Joback Method
dvisc	0.0000669	Paxs	726.10	Joback Method
dvisc	0.0000493	Paxs	785.30	Joback Method
dvisc	0.0000378	Paxs	844.50	Joback Method

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U405782&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

Legend

cp_g:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
m_{cvol}:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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