

Fumaric acid, 2-isopropoxyphenyl 2-ethylhexyl ester

Inchi:	InChI=1S/C21H30O5/c1-5-7-10-17(6-2)15-24-20(22)13-14-21(23)26-19-12-9-8-11-18(19)
InchiKey:	RFGZZRQREVSUHI-BUHFOSPRSA-N
Formula:	C21H30O5
SMILES:	CCCCC(CC)COC(=O)C=CC(=O)Oc1ccccc1OC(C)C
Mol. weight [g/mol]:	362.46

Physical Properties

Property code	Value	Unit	Source
gf	-268.78	kJ/mol	Joback Method
hf	-766.87	kJ/mol	Joback Method
hfus	43.72	kJ/mol	Joback Method
hvap	85.18	kJ/mol	Joback Method
log10ws	-5.51		Crippen Method
logp	4.695		Crippen Method
mvol	299.440	ml/mol	McGowan Method
pc	1298.60	kPa	Joback Method
rinpol	2437.00		NIST Webbook
rinpol	2437.00		NIST Webbook
tb	889.82	K	Joback Method
tc	1099.16	K	Joback Method
tf	496.84	K	Joback Method
vc	1.137	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	940.39	J/molxK	889.82	Joback Method
cpg	1005.77	J/molxK	1064.27	Joback Method
cpg	995.10	J/molxK	1029.38	Joback Method
cpg	983.25	J/molxK	994.49	Joback Method
cpg	970.20	J/molxK	959.60	Joback Method
cpg	955.92	J/molxK	924.71	Joback Method
cpg	1015.29	J/molxK	1099.16	Joback Method
dvisc	0.0000260	Paxs	889.82	Joback Method

dvisc	0.0000345	Paxs	824.32	Joback Method
dvisc	0.0000482	Paxs	758.83	Joback Method
dvisc	0.0000716	Paxs	693.33	Joback Method
dvisc	0.0001155	Paxs	627.83	Joback Method
dvisc	0.0002084	Paxs	562.34	Joback Method
dvisc	0.0004392	Paxs	496.84	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U405713&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cpg:	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:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	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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