

# Fumaric acid, 2-isopropoxyphenyl hept-2-yl ester

Inchi:	InChI=1S/C20H28O5/c1-5-6-7-10-16(4)24-19(21)13-14-20(22)25-18-12-9-8-11-17(18)23
InchiKey:	KVHCXKYCRMNSSY-BUHFOSPRSA-N
Formula:	C20H28O5
SMILES:	CCCCC(C)OC(=O)C=CC(=O)Oc1ccccc1OC(C)C
Mol. weight [g/mol]:	348.43

## Physical Properties

Property code	Value	Unit	Source
gf	-277.20	kJ/mol	Joback Method
hf	-746.23	kJ/mol	Joback Method
hfus	41.13	kJ/mol	Joback Method
hvap	82.96	kJ/mol	Joback Method
log10ws	-5.45		Crippen Method
logp	4.447		Crippen Method
mcvol	285.350	ml/mol	McGowan Method
pc	1393.33	kPa	Joback Method
rinpol	2318.00		NIST Webbook
rinpol	2318.00		NIST Webbook
tb	866.94	K	Joback Method
tc	1075.65	K	Joback Method
tf	485.57	K	Joback Method
vc	1.081	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	881.18	J/molxK	866.94	Joback Method
cpg	896.58	J/molxK	901.72	Joback Method
cpg	910.77	J/molxK	936.51	Joback Method
cpg	923.77	J/molxK	971.29	Joback Method
cpg	935.60	J/molxK	1006.08	Joback Method
cpg	946.29	J/molxK	1040.86	Joback Method
cpg	955.85	J/molxK	1075.65	Joback Method
dvisc	0.0004923	Paxs	485.57	Joback Method

dvisc	0.0002359	Paxs	549.13	Joback Method
dvisc	0.0001317	Paxs	612.69	Joback Method
dvisc	0.0000820	Paxs	676.25	Joback Method
dvisc	0.0000554	Paxs	739.82	Joback Method
dvisc	0.0000398	Paxs	803.38	Joback Method
dvisc	0.0000301	Paxs	866.94	Joback Method

## Sources

<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=U405712&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405712&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>

## Legend

<b>cp<sub>g</sub>:</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>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>m<sub>cvol</sub>:</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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