

Fumaric acid, di(2-propylphenyl) ester

Inchi:	InChI=1S/C22H24O4/c1-3-9-17-11-5-7-13-19(17)25-21(23)15-16-22(24)26-20-14-8-6-12
InchiKey:	RICHKLPZEZIMAK-FOCLMDBBSA-N
Formula:	C22H24O4
SMILES:	CCCc1ccccc1OC(=O)C=CC(=O)Oc1ccccc1CCC
Mol. weight [g/mol]:	352.42

Physical Properties

Property code	Value	Unit	Source
gf	-47.70	kJ/mol	Joback Method
hf	-419.67	kJ/mol	Joback Method
hfus	45.82	kJ/mol	Joback Method
hvap	88.71	kJ/mol	Joback Method
log10ws	-6.04		Crippen Method
logp	4.659		Crippen Method
mcvol	283.900	ml/mol	McGowan Method
pc	1533.06	kPa	Joback Method
rinpol	2567.00		NIST Webbook
rinpol	2567.00		NIST Webbook
tb	922.82	K	Joback Method
tc	1150.24	K	Joback Method
tf	554.82	K	Joback Method
vc	1.079	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	868.60	J/molxK	922.82	Joback Method
cpg	882.53	J/molxK	960.72	Joback Method
cpg	895.22	J/molxK	998.63	Joback Method
cpg	906.72	J/molxK	1036.53	Joback Method
cpg	917.10	J/molxK	1074.43	Joback Method
cpg	926.40	J/molxK	1112.34	Joback Method
cpg	934.69	J/molxK	1150.24	Joback Method
dvisc	0.0003417	Paxs	554.82	Joback Method

dvisc	0.0001974	Paxs	616.15	Joback Method
dvisc	0.0001259	Paxs	677.49	Joback Method
dvisc	0.0000866	Paxs	738.82	Joback Method
dvisc	0.0000630	Paxs	800.15	Joback Method
dvisc	0.0000480	Paxs	861.49	Joback Method
dvisc	0.0000379	Paxs	922.82	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=U348130&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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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