

Fumaric acid, ethyl 4-phenoxybenzyl ester

Inchi:	InChI=1S/C19H18O5/c1-2-22-18(20)12-13-19(21)23-14-15-8-10-17(11-9-15)24-16-6-4-3
InchiKey:	LKGNHRKJPOLBBK-OUKQBFOZSA-N
Formula:	C19H18O5
SMILES:	CCOC(=O)C=CC(=O)OCc1ccc(Oc2ccccc2)cc1
Mol. weight [g/mol]:	326.34

Physical Properties

Property code	Value	Unit	Source
gf	-168.33	kJ/mol	Joback Method
hf	-478.50	kJ/mol	Joback Method
hfus	39.62	kJ/mol	Joback Method
hvap	83.78	kJ/mol	Joback Method
log10ws	-4.08		Crippen Method
logp	3.641		Crippen Method
mcvol	247.500	ml/mol	McGowan Method
pc	1944.08	kPa	Joback Method
rinpol	2500.00		NIST Webbook
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tb	871.62	K	Joback Method
tc	1102.40	K	Joback Method
tf	530.72	K	Joback Method
vc	0.929	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	723.94	J/molxK	871.62	Joback Method
cpg	736.93	J/molxK	910.08	Joback Method
cpg	748.66	J/molxK	948.55	Joback Method
cpg	759.15	J/molxK	987.01	Joback Method
cpg	768.44	J/molxK	1025.47	Joback Method
cpg	776.57	J/molxK	1063.93	Joback Method
cpg	783.58	J/molxK	1102.40	Joback Method
dvisc	0.0003720	Paxs	530.72	Joback Method

dvisc	0.0002173	Paxs	587.54	Joback Method
dvisc	0.0001396	Paxs	644.35	Joback Method
dvisc	0.0000963	Paxs	701.17	Joback Method
dvisc	0.0000703	Paxs	757.99	Joback Method
dvisc	0.0000536	Paxs	814.80	Joback Method
dvisc	0.0000423	Paxs	871.62	Joback Method

Sources

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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U348109&Units=SI

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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