

2-Ethylhexyl 3,4-dimethylbenzoate

Inchi:	InChI=1S/C17H26O2/c1-5-7-8-15(6-2)12-19-17(18)16-10-9-13(3)14(4)11-16/h9-11,15H,5
InchiKey:	NOJFKUNHDNKRPS-UHFFFAOYSA-N
Formula:	C17H26O2
SMILES:	CCCCC(CC)COC(=O)c1ccc(C)c(C)c1
Mol. weight [g/mol]:	262.39

Physical Properties

Property code	Value	Unit	Source
gf	-50.95	kJ/mol	Joback Method
hf	-430.70	kJ/mol	Joback Method
hfus	32.31	kJ/mol	Joback Method
hvap	65.80	kJ/mol	Joback Method
log10ws	-5.35		Crippen Method
logp	4.677		Crippen Method
mcvol	234.070	ml/mol	McGowan Method
pc	1606.42	kPa	Joback Method
rinsol	1920.00		NIST Webbook
tb	700.85	K	Joback Method
tc	898.99	K	Joback Method
tf	389.97	K	Joback Method
vc	0.897	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	654.79	J/molxK	700.85	Joback Method
cpg	672.31	J/molxK	733.87	Joback Method
cpg	688.85	J/molxK	766.90	Joback Method
cpg	704.44	J/molxK	799.92	Joback Method
cpg	719.10	J/molxK	832.94	Joback Method
cpg	732.85	J/molxK	865.97	Joback Method
cpg	745.72	J/molxK	898.99	Joback Method
dvisc	0.0012847	Paxs	389.97	Joback Method
dvisc	0.0006534	Paxs	441.78	Joback Method

dvisc	0.0003830	Paxs	493.60	Joback Method
dvisc	0.0002485	Paxs	545.41	Joback Method
dvisc	0.0001738	Paxs	597.22	Joback Method
dvisc	0.0001287	Paxs	649.04	Joback Method
dvisc	0.0000996	Paxs	700.85	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=R540326&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
mccvol:	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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