

# Sebacic acid, 2-acetylphenyl heptyl ester

<b>Inchi:</b>	InChI=1S/C25H38O5/c1-3-4-5-10-15-20-29-24(27)18-11-8-6-7-9-12-19-25(28)30-23-17-
<b>InchiKey:</b>	XETZEZZSBBIDSC-UHFFFAOYSA-N
<b>Formula:</b>	C25H38O5
<b>SMILES:</b>	CCCCCCCOC(=O)CCCCCCCC(=O)Oc1ccccc1C(C)=O
<b>Mol. weight [g/mol]:</b>	418.57

## Physical Properties

Property code	Value	Unit	Source
gf	-334.36	kJ/mol	Joback Method
hf	-936.45	kJ/mol	Joback Method
hfus	61.33	kJ/mol	Joback Method
hvap	99.24	kJ/mol	Joback Method
log10ws	-7.59		Crippen Method
logp	6.429		Crippen Method
mcvol	355.800	ml/mol	McGowan Method
pc	1009.73	kPa	Joback Method
rinpola	3130.00		NIST Webbook
tb	1009.51	K	Joback Method
tc	1236.49	K	Joback Method
tf	604.70	K	Joback Method
vc	1.381	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1195.69	J/molxK	1009.51	Joback Method
cpg	1210.97	J/molxK	1047.34	Joback Method
cpg	1224.68	J/molxK	1085.17	Joback Method
cpg	1236.86	J/molxK	1123.00	Joback Method
cpg	1247.56	J/molxK	1160.83	Joback Method
cpg	1256.84	J/molxK	1198.66	Joback Method
cpg	1264.73	J/molxK	1236.49	Joback Method
dvisc	0.0002765	Paxs	604.70	Joback Method
dvisc	0.0001514	Paxs	672.17	Joback Method

dvisc	0.0000925	Paxs	739.64	Joback Method
dvisc	0.0000614	Paxs	807.11	Joback Method
dvisc	0.0000434	Paxs	874.57	Joback Method
dvisc	0.0000322	Paxs	942.04	Joback Method
dvisc	0.0000249	Paxs	1009.51	Joback Method

## Sources

<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=U354975&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U354975&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

## Legend

<b>cpg:</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>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</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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