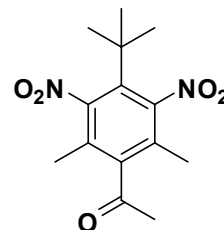


Musk Ketone

CAS N°: 81-14-1**Empirical formula:** C₁₄H₁₈N₂O₅

Synonyms: 4'-*tert*-butyl-2',6'-dimethyl-3',5'-dinitroacetophenone
 3,5-dinitro-2,6-dimethyl-4-*tert*-butylacetophenone
 3,5-Dinitro-2,6-dimethyl-4-*tert*-butylacetophenone
 1-(4-*tert*-Butyl-2,6-dimethyl-3,5-dinitrophenyl) ethanone

Structure:

1-[4-(1,1-Dimethylethyl)-2,6-dimethyl-3,5-dinitrophenyl]ethanone
 Ethanone, 1-[4-(1,1-dimethylethyl)-2,6-dimethyl-3,5-dinitrophenyl]-

History: Initial reviews: New Standard
 Current revision date: June 11, 2010
Implementation date: For new submissions*: June 11, 2012
For existing fragrance compounds*: June 11, 2012
Next review date: 2015

* This date applies to the supply of fragrance compounds (formulas) only, not to the finished products in the marketplace.

RECOMMENDATION: SPECIFICATION**RESTRICTIONS:****Limits in the finished product:****Skin contact products:**

Leave-on products:	N/A	Rinse-off products: N/A
		<i>Including household cleaning products</i>

Non skin contact products:	N/A
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Note box:

Musk xylene (CAS 81-15-2), which has been prohibited for use in fragrance compounds for environmental reasons (vPvB), can be present in musk ketone as an impurity.

Fragrance material specifications:

Musk ketone should only be used if it contains less than 0.1% of musk xylene.

Indicative contribution from other sources: N/A

Critical effect: See note box

Musk Ketone

REXPAN Rationale / Conclusion:

IFRA policy on purity of musk ketone noted – REXPAN, February 2010.

References:

See Standard on musk xylene.